REMARKS RESPONSIVE TO

2/1/2006 NOTICE OF NON-COMPLIANT AMENDMENT

Claims 1-4 were pending in the above-identified application when last examined and were rejected. The drawings are being amended and new redline and replacement drawings are submitted herein as discussed below The specification is being amended – according to the prior amendment and without further objection thereto- to correct numbering inconsistency, add further drawing references, add elements shown in the originally filed drawings, and to correct grammar and other scrivener's errors. Claims 1-4 are being amended and new claims 5-44 are being added without any intent to narrow the claims. Claims 5-44 are currently pending and no new matter is being added.

An amendment, the substance of which is reproduced herein, was filed on 2/1/2006 and a Notice of Non-Compliant Amendment was issued thereupon on 10/30/2007. According to the Examiner, the amendment presented only claims drawn to a non-elected invention "because they are related to control of multiple connected machines". During a series of telephone interviews, however, the Examiner conceded that the intended restriction should merely be drawn to a single device and that the single device may comprise a machine that may host one or more further "hosted" machines. (According to the Examiner, claims to multiple-connected machines were non-elected due to categorization by the Examiner in conducting an initial examination. Claims to embodiments encompassing two or more networked or otherwise communicatingly coupleable devices must therefore be filed as divisional/continuation applications.)

Also according to Examiner request, Applicant has withdrawn prior replacement of the original claims and instead re-submitted the original claims with amendment. Further, despite subsequent Examiner admission that "communication", "conversance" and/or "conversant" need NOT require recognition of user speech in various embodiments, Applicant has nevertheless complied with an earlier Examiner request by limiting the currently submitted claims to embodiments that at least include voice input (due to concerns for potential re-drafting errors and in view of delay caused by the prior loss of the

instant Application by the USPTO). Applicant very much appreciates the Examiner's assistance and assurance that a next Office Action would not be a final Action. Accordingly, replacement claims are submitted herein that are drawn to single device embodiments that may include one or more "hosted" machines, and that include voice input.

The DRAWINGS and CLAIMS were also objected to for missing and improper labeling respectively. Accordingly, replacement redline and replacement drawings are submitted herewith that are labeled as the examiner instructed. Applicant has also been careful to properly label the replacement claims as instructed by the examiner.

SUPPORT FOR THE REPLACMENT CLAIMS as amended/replaced herein includes but is not limited to the following examples taken from the originally filed instant specification, drawings and claims:

Claim 1 is supported by at least originally filed claims 1-4 and page 6, lines 4-7, page 14, lines 7-11, page 29, lines 8-9, page 40, line 31 through page 41, line 1, page 54, lines 28-31 and page 63, lines 4-6. **Claim 5** is supported by at least page 5, lines 7-8, page 60, line 26 through page 61, line 1, page 11, lines 4-6, page 17, lines 1-3, page 18, lines 5-16, page 65, lines 15-21 and page 85, lines 8-21. **Claim 6** is supported by at least page 6, lines 4-7, page 21, lines 30-31 and page 22, lines 7-11. **Claim 7** is supported by at least page 10, lines 2-5, page 22, lines 7-11, page 31, lines 22-26, page 53, lines 21-26 and page 67, lines 21-26. **Claims 8-9** are supported by at least page 23, lines 2-8, page 36, lines 15-19, page 56, line 22 through page 57, line 1, page 58, lines 22-24 and page 66, lines 1-8. **Claim 10** is supported by at least page 13, lines 21-25, page 53, lines 13-15, page 55, lines 1-7, page 55, line 29 through page 56, line 2, page 65, lines 10-14 and page 69, lines 4-6.

Claim 11 is supported by at least FIG. 3a, page 5, line 30 through page 6, line 2, page 14, lines 7-11, page 21, lines 7-11, page 22, lines 14-24, page 23, lines 9-13, page 35, lines 2-4, page 38, line 28 through page 39, line 3 and page 68, lines 21-24. **Claim 12** is supported by at least page 6, lines 4-7, page 14, lines 7-11, page 36, lines 14-16, page 39, lines 29-31 and page 69, lines 19-20. **Claim 13** is supported by at least page 29, lines 2-5, page 40, line 30 through page 41, line 2, page 65, lines 15-21 and page 68, line 30 through page 69, line 8. **Claim 14** is supported by at least page 14, line 30 through page 15, line 18,

page 23, lines 24-26, page 35, lines 18-21, page 36, lines 14-16, page 40, lines 4-7, page 41, lines 5-9, page 41, line 27 through page 42, line 7 and page 69, lines 15-22. **Claim 15** is supported by at least page 21, lines 28-30, page 24, lines 4-20, page 26, line 31 through page 29, line 2, page 10, line 5, page 12, lines 7-8, page 55, lines 3-7, page 65, lines 10-12, page 72, lines 11-13, page 21, lines 6-11, page 21, lines 25-28 and page 23, lines 2-8. **Claim 16** is supported by at least page 22, line 25 through page 23, line 1 and page 37, lines 22-25. **Claim 17** is supported by at least page 18, lines 17-24, page 37, lines 22-25, page 53, lines 15-17, page 63, lines 4-6, page 71, lines 20-24 and page 72, lines 9-11. **Claim 18** is supported by at least the same references as provide support for claims 19-24. **Claim 19** is supported by at least page 5, lines 23-24, page 62, lines 17-18, page 63, lines 1-6, page 65, lines 15-17 and page 72, lines 14-19. **Claim 20** is supported by at least page 29, lines 8-9, page 63, lines 4-6, page 27, lines 8-14, page 39, line 28 through page 40, line 1, page 65, lines 15-21 and page 70, lines 15-19.

Claim 21 is supported by at least page 41, lines 5-24 and page 71, lines 5-9. **Claim 22** is supported by at least page 30, lines 19-27, page 39, lines 19-31 and page 40, line 29 through page 41, line 14. **Claims 23-24** are supported by at least page 31, lines 13-17, page 25, lines 3-10, page 29, lines 2-9, page 40, line 31 through page 41, line 24, and page 50, lines 18-26. **Claims 25-26** are supported by at least page 13, lines 17-25, page 14, lines 7-8, page 17, lines 17-19, page 18, lines 19-28, page 62, lines 13-16, page 63, lines 13-26 and 26-30, and page 71, lines 12-16. **Claim 27** is supported by at least page 29, lines 8-9, page 65, lines 15-21, page 70, lines 5-10, page 71, lines 5-9 and page 72, lines 14-18. **Claim 28** is supported by at least page 15, lines 13-18, page 29, lines 8-9,page 55, lines 8-18, page 65, lines 15-21 and page 70, lines 5-10 and 15-17. **Claim 29** is supported by at least page 12, line 23, page 13, lines 6-8 and 17-21, page 18, lines 5-10, page 55, lines 1-7, page 62, lines 4-7, page 71, lines 9-19, page 72, lines 7-11, page 13, lines 9-16, page 47, lines 10-15 and page 71, lines 26-30. **Claim 30** is supported by at least page 71, lines 12-16, page 22, lines 14-31 and page 23, lines 4-6 and 9-17.

Claims 31-34 are supported by at least FIG. 5b and page 66, lines 1-10, page 112, lines 5-18, page 112, line 23 through page 113, line 2, page 5, lines 26-30, page 30, line 31 through page 31, line 4, page 58, lines 25-26, page 60, lines 18-21 and page 113, lines 12-16. **Claims 35-36** is supported by at least FIG. 3a and page 97, lines 20-25, page 99, line

23 through page 100, line 15, page 26, lines 3-11, page 30, lines 5-24, page 35, lines 13-18, page 36, lines 23-30, page 37, lines 13-17 and 26-31, page 102, lines 7-13, page 96, lines 8-26, page 35, lines 28-31, and further by page 18, lines 17-24, page 26, lines 15-17, page 37, lines 22-25, page 53, lines 15-17, page 71, lines 20-24 and page 72, lines 9-11. **Claim 37** is supported by at least page 87, line 16 through page 88, line 9. **Claim 38** is supported by at least page 10, lines 12-22. **Claims 39-40** are supported by at least page 30, lines 28-29, page 47, line 28 through page 48, line 2, page 50, lines 26-28, page 53, line 29 through page54, line 1, page 54, lines 11-20, page page 64, lines 16-19, page 72, line 31 through page 73, line 3 and page 114, lines 12-16.

Claims 41-42 are supported by at least by the exemplary claim chart attachment pages 6 (Dispose of Existing Messages, Random Selection), 7 (Find Related Messages, Making Selections) and 10 (Addressing an Email using the Find People Window, To Select Records Within a List), as well as page 107, line 11 through page 108, line 11. **Claims 43-44** are supported by at least page 37, line 31 through page 38, line 3, page 54, lines 17-20 and page 66, line 26 through page 67, line 1.

THE REMAINDER OF THIS RESPONSE including the following remarks is intended to duplicate the amendment filed on 2/1/2006. Note therefore that the below reference to the claim numbering is as originally filed and may not reflect replacement claims entered responsive to the Notice of Non-compliant Amendment. Applicant arguments are, however, maintained and re-submitted thereby.

PRIOR REMARKS

Claims 1-4 were pending in the above-identified application when last examined and were rejected. The drawings are being amended to correct numbering, add elements of the original specification and drawings, correct other scrivener's errors and further illustrate embodiments disclosed in the originally filed application. The specification is being amended to correct numbering inconsistency, add further drawing references, add elements shown in the originally filed drawings, and to correct grammar and other scrivener's errors. Claims 1-4 are being cancelled and new claims 5-48 are being added

without any intent to narrow the claims. Claims 5-48 are currently pending and no new matter is being added.

Applicant appreciates the Examiner's assistance via telephone, as well as the Examiner's agreement to accept redline copies of re-constructed drawings and new replacement drawings rather than requiring redlined prior-filed drawings. The Examiner also indicated his preference to receive only citations to the specification rather than the referenced text; such text is therefore absent from this response. The Examiner's agreement to consider the use of the term "conversant" in the originally filed and current claims is also greatly appreciated, as are his efforts to avoid finality. Deficiencies such as those of the cited reference are discussed, for example, in the Background of the Invention, while conversance, conversant commands, conversant execution and related embodiments are disclosed in great detail in the Summary of the Invention and throughout the originally filed Specification and drawings.

Attached to this Amendment is a copy of the drawings for figures 2, 3a, 4a, 4c, 5b, 6a, 6b, 7a-e, 8e-g, second 6a-b, 6c-e, 10-1, 10-2, second figures 5, 8 and 10, and figures 11a, 11b, 12, 13, 14, 19, 20 and 21 with proposed changes shown in RED ink. The proposed changes include correction of numbering, addition of elements described in the originally filed specification, correction of other scrivener's errors (e.g., returning details of the original hand drawings inadvertently excluded from their computer replacements) and further illustration of embodiments disclosed in the originally filed application. Replacement drawings for existing figures 2, 3a, 4a, 4c, 5b, 6a, 6b, 7a-e, 8e-g, second 6a-b, 6c-e, 10-1, 10-2, second figures 5, 8 and 10, and figures 11a, 11b, 12, 13, 14, 19, 20 and 21 are attached, as are drawings for new figures 12b-d, 13a-c, 14, 15d-g and 17.

Support for the amendments to the drawings includes at least the following:

Amended FIG. 2, adds memory 209 and interfacing system element(s) 212. The originally filed specification discloses such elements respectively at least at page 22, lines 21and page 20, lines 6-7.

Amended FIG. 3a adds movement indicators 311a as well as: a note implement; input device; stylus, electronic book, files and a stylus; further books; a (television or other)

monitor; and (home or other) entertainment equipment, e.g., a stereo, gaming system, DVR, receiver, transceiver, and so on. Such elements are disclosed in the originally filed figure 3a as well as broadly and more specifically in the originally filed specification at least at page 27, lines 14-15, page 32, lines 13-15, page 73, lines 5-6, page 78, lines 11-13. page 19, lines 13-14, page 20, lines 2-3, page 20, line 12 and page 21, lines 26-29.

Amended FIG. 7d adds a box around the pre-existing explicit designation resolver 732, and adds cued input resolver 738. A cued input resolver embodiment is disclosed in the originally filed specification at least at page 70, lines 26-27.

Amended FIG. 12e-1, previously the un-amended bottom-most portion of FIG. 21, and NEW FIG. 12e-2 are supported by at least the originally filed figure 21 (bottom-right) and specification at least at page 100, lines 5-13 and page 102, lines 7-11.

NEW FIG. 12b illustrates an embodiment of differentiating, inhibiting routing or otherwise processing command, data and/or dictation information or types thereof. Support is disclosed in at least the originally filed figures 1, 3a-c, 4b-c, 5a-b, 6a, 7c-e, 8b-c, 8e-g, second 5 and 6d, 10-2, 11a, 13 and 19. Support is also provided in the originally filed specification at least at page 5, lines 11-15, page 5, line 31 – page 6, line 3, page 6, lines 6-8, page 17, lines 7-11, page 21, lines 3-4, page 32, lines 18-20, page 65, lines 15-17, page 66, lines 12-13, page 69, lines 23-25, page 71, lines 5-9, page 77, lines 1-5, page 80, lines 19-20.

New FIG. 12b also illustrates an embodiment of extended grouping and form contexts. These are supported by at least the originally filed figures 3b-c, 4a, 5a-b, 7b, 8d, 8g, 10-1, 11a-c, 12 and 13, and in the originally filed specification at least at page 25, lines 3-10 and page 38, lines 4-8.

NEW FIG. 12c is supported by the originally filed specification at least at page 35, lines 13-20.

NEW FIG. 12d is supported by the originally filed specification at least at page 30, lines 29-31, page 33, lines 9-18, page 36, lines 23-31, page 57, lines 5-8, page 87, lines 18-27, and page 88, lines 10-15.

NEW FIG. 12g is supported by the originally filed specification at least at page 107, lines 22-25, page 108, lines 1-6, page 32, line 30 – page 33, line 1, page 54, lines 15-18, page 114, line 31 – page 115, line 1, and the originally filed appendix section entitled

Addressing an Email Message using the Find People window and subsections entitled *Enter Field Info* and *To Select Listed Records*.

NEW FIG. 12h is supported by the originally filed specification at least at page 36, lines 6-11, page 11, lines 28-30 and page 15, lines 18-20.

NEW FIG. 13a is supported by the originally filed specification at least at page page 5, lines 11-15, page 5, line 31 – page 6, line 3, page 6, lines 6-8, page 96, lines 6-24, the originally filed appendix section entitled 3b Addressing Messages and subsections entitled *Addressing an email message* and *Misc Commands*, page 45, lines 15-16, page 109, lines 6-7, page 38, lines 25-28, and the originally filed appendix section entitled 3a *Creating NEW Email Messages* and subsection entitled *Inserting Within or Attaching to an Email Message*.

NEW FIG. 13b is supported by at least the originally filed figure 3a and specification at least at page 21, lines 4-11, page 26, lines 3-11, page 30, lines 6-7 and page 30, lines 19-21.

NEW FIG. 13c is supported by at least the originally filed specification at least at page 80, line 29 – page 81, line 7, and page 56, lines 27-30.

NEW FIG. 14 is supported by at least the originally filed specification at least at page 105, lines 5-14, page 30, line 31 – page 31, line 4, page 66, lines 1-4 and page 99, lines 9-10.

NEW FIG. 15d is supported by at least the originally filed specification at least at page 17, lines 7-17, page 65, lines 15-21, page 67, lines 2-5, and page 70, lines 4-21.

NEW FIGS. 15e-g and NEW FIG. 17 are supported by at least the originally filed figures 1-8g, second 6a-d (now 9a-d), 10-1 through 10-2 (now 10a-b), second 5 (now 10c), 19 (now 10d), 11a, 21 bottom (now 12e-1), 21 bottom right (now 12e-2), 14 (now 12f) 21 top and middle (now 15a-c) and 20 (now 16). New FIGS. 15e, 15f and 17 are also supported by the originally filed specification at least at page 27, lines 29 – page 28, line 4, page 67, line 29 – page 68, line 6, page 68, lines 7-8, page 68, lines 14-29, page 65, lines 10-13, page 55, lines 4-7, page 46, lines 26-29, page 47, line 29 – page 48, line 2 and page 71, lines 20-29. New FIG. 15g is further supported at least by the originally filed specification at page 27, lines 8-13.

Support for the amendments to the specification and claims, and addition of new claims includes at least the originally filed specification at page 5, lines 11-15, page 5, line 11 – page 6, line 8, page 15, lines 18-20, page 17, lines 7-17, page 18, lines 19-24, page 19, lines 13-14, page 20, lines 2-12, page 21, lines 3-11 and lines 26-29, page 22, line 21, page 25, lines 3-10, page 26, lines 3-11, page 27, lines 8-15, page 27, line 29 through page 28, line 4, page 29, lines 7-9, page 30, lines 6-7, page 30, line 19 through page 31, line 4, page 32, line 13 through page 33, line 18, page 35, lines 13-20, page 36, lines 6-31, page 38, lines 3-8, page 46, lines 26-29, page 47, line 29 – page 48, line 2, page 54, lines 15-18, page 55, lines 4-7, page 56, lines 10-14 and 27-30, page 57, lines 5-8, page 62, lines 17-18, page 63, lines 25-26, page 65, lines 10-21, page 66, lines 1-4 and 12-13, page 67, lines 2-5, page 67, line 29 through page 68, line 8, page 68, lines 14-29, page 69, lines 23-25, page 70, lines 4-27, page 71, lines 5-9 and 20-29, page 73, lines 5-6, page 77, lines 1-5, page 78, lines 11-13, page 80, line 19 through page 81, line 7, page 87, lines 18-27, page 88, lines 10-15, page 96, lines 6-24, page 99, lines 9-10, page 100, lines 5-13 and page 102, lines 7-11. page 105, lines 5-14, page 107, lines 22-25, page 108, lines 1-6, and page 114, line 31 through page 115, line 1. Further support is also provided at least by the originally filed drawings, claims and appendix, and by the provisional application incorporated by reference in the originally filed application.

Rejections under 35 USC §112

In items 1 through 2, page 2, the Examiner accepts the submitted replacement drawings, but objects to the drawings of Figures 5, 61-c, 8, 10-1, 10-2 and 12-21 as "failing to comply with 37 CFR 1.84(4). The Examiner asserts that (a) the first and second instances of a same numeric reference of FIGS. 6a and 6b "designate flow featuring entirely different content"; (b) reference drawings for FIGS. 5, 6c-e, 8, 10-1, 10-2, 11-b, 12-14 and 19-21 are not mentioned in the brief description of the drawings; and (c) drawings for FIGS. 15-18 are not in numeric sequence since the drawings within the sequence are not found in the application.

Regarding item 2a (FIGS. 6a-b), Applicant has re-numbered FIG. 6b as FIG. 4d, which, as with figures 4a-c, also addresses FIG. 1 embodiment details/alternatives. Applicant asserts, however, that the original numeric reference provides better clarity

according to corresponding references in the specification. Applicant therefore respectfully requests withdrawal of the objection and the Examiner's agreement that the original numeric referencing for FIG. 6b may be restored.

Regarding item 2b (FIGS. 5, 6c-e, 8, 10-1, 10-2, 11-b, 12-14 and 19-21), the presently requested amendment amends the Brief Description of the Drawings to ensure that all existing and new drawings are now referenced in the specification. Withdrawal of the objection is therefore respectfully requested.

Regarding item 2c (FIGS. 15-18), the present Amendment is substantially directed at re-numbering the drawings and drawing elements of the respective embodiments. The deficiency objected to (gaps in drawing numbering) is corrected, and withdrawal of the objection is respectfully requested.

Specification

In item 3, page 2, the Examiner notes that the lengthy Specification was not checked for minor errors and requests Applicant's cooperation.

Applicant has reviewed the Specification for errors and has, through an also lengthy present Amendment, corrected minor errors, provided more extensive referencing and removed numbering discrepancies respecting corresponding drawings. Applicant submits that he has attempted to be as cooperative as possible.

In item 4, page 2, the Examiner asserts that "Figs.: 5, 6a-c, 10, 10-1, 10-2, 11a, 11b, 12-14 and 19-21 are not listed in the brief or detailed drawing descriptions" and that "Appropriate correction is required".

As noted respecting the above items 1-3, Applicant has re-numbered the drawings, elements and references thereto in the Specification (as well as in the Drawings), and has added references to the noted drawings –as amended- in the brief and detailed descriptions. Withdrawal of the objection/requirement is therefore respectfully requested.

Claim Rejections under 35 USC §102

In items 5-6, page 3, the Examiner rejects claims 1 through 4 under 35 USC §102 as being unpatentable over US Patent 5,761,420 to Johnson et al (hereinafter "Johnson").

Regarding claims 1 and 3, the Examiner asserts that Johnson shows "an interfacing method and system (*voice command interface*. Col. 4, Line 36) comprising: receiving machine information corresponding to a machine (*recognizing an input into the voice control system*, Col. 4, Lines 40-43); determining objectives corresponding to the machine information (*issues keystrokes to a keyboard determined by the voice control system.* Col. 4, Lines 40-32); and determining conversant commands corresponding to the objectives (*voice control system that recognizes a voice command through a template with a trained voice field.* Col. 4, Lines 36-43).

While Applicant disagrees with the Examiner at least in that Johnson fails to teach or suggest determining *conversant* commands, let alone conversant commands corresponding to *objectives*, claims 1 and 3 are cancelled and the rejection of claims 1 and 3 is thereby rendered moot. Withdrawal of the rejection of claims 1 and 3 is therefore respectfully requested.

Regarding claim 2, the Examiner asserts that Johnson discloses a conversant interface formed according to the method of claim 1 (*voice control interface that recognizes a voice command through a template with a trained voice field.* Col. 4, Lines 36-43.

Applicant again strongly disagrees with the Examiner at least in that Johnson fails to teach or suggest either a *conversant interface* or a conversant interface formed according to the method of claim 1. Johnson is completely unconcerned with conversance or considerations or solutions that may enable conversant commands, conversant execution, and so on. However, claim 2 is cancelled and the rejection of claim 2 is thereby rendered moot. Therefore, withdrawal of the rejection of claim 2 is respectfully requested.

Regarding claim 4, the Examiner asserts that John discloses a computer readable medium having stored thereon computer code for causing a computer to perform the steps of (*floppy disk and drive containing a computer program that implements the voice command interface using a data processing system.* Col. 3, Lines 29-32); receiving machine information corresponding to a machine (*recognizing an input into the voice*

control system. Col. 4, Lines 40-43); determining objectives corresponding to the machine information (*issues keystrokes to a keyboard determined by the voice control system*. Col. 4, Lines 36-43); and determining conversant commands corresponding to the objectives (*voice control system that recognizes a voice command through a template with a trained voice field*. Col. 4, lines 36-43).

While Applicant again strongly disagrees with the Examiner for at least the same reasons as given with respect to the rejection of claims 1-3 (above), cancellation of claim 4 renders the rejection moot. Therefore, withdrawal of the rejection is respectfully requested.

Therefore, for at least the above reasons, Applicant respectfully requests reconsideration and withdrawal of the rejections of claims 1-4 under 35 USC §102.

In summary, claims 1-4 were pending in this application. This response amends claims 1-4 and adds new claims 5-44. For at least the above reasons, Applicant respectfully requests withdrawal of the objections and rejections, and early allowance of claims 1-44.

If the Examiner has any questions or needs any additional information, the Examiner is invited to telephone the undersigned attorney at (650) 631-4232.

Respectfully Submitted,

Dated: 3/31/2008

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PATENT & TRADEMARK OFFICE

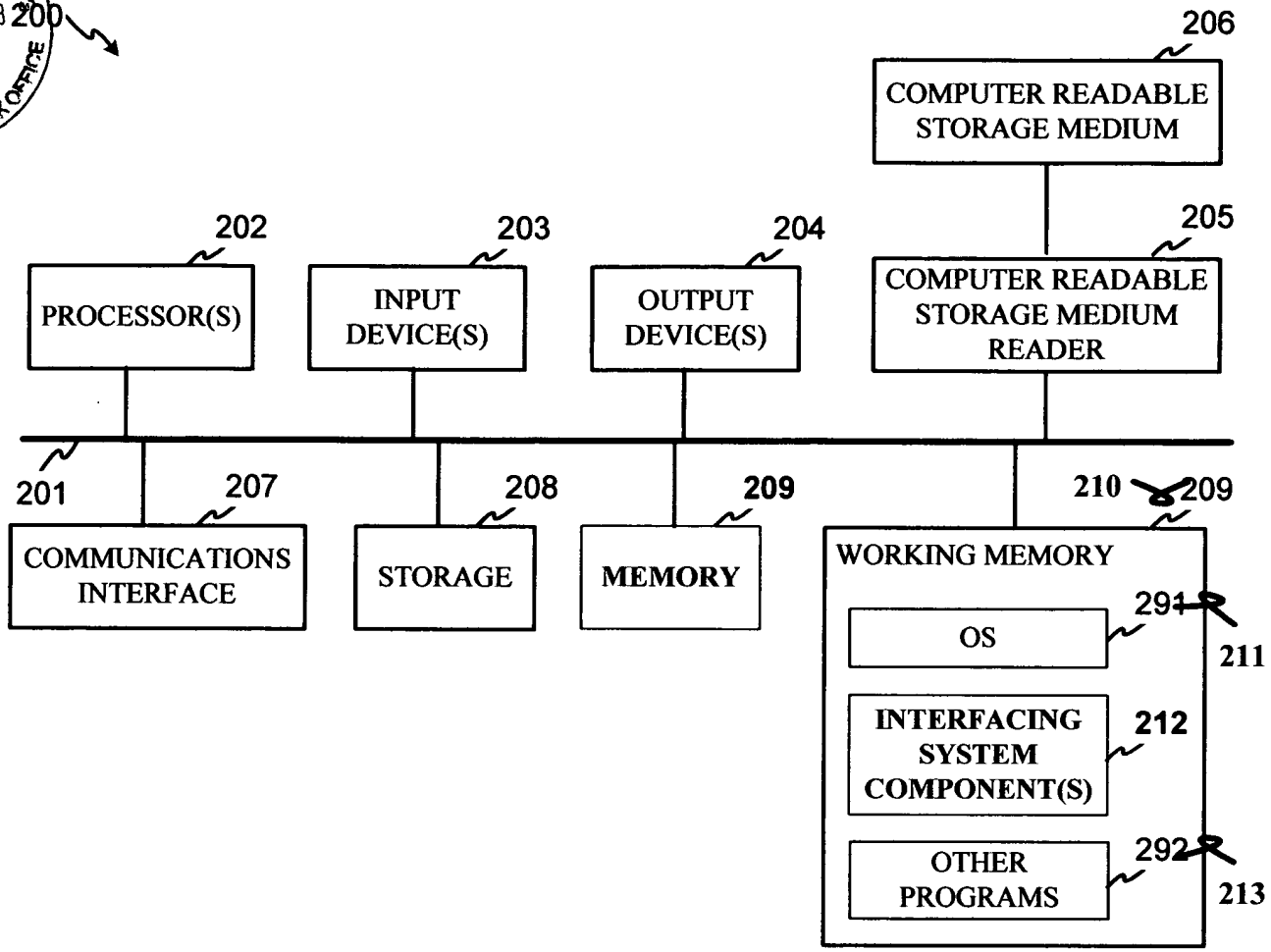
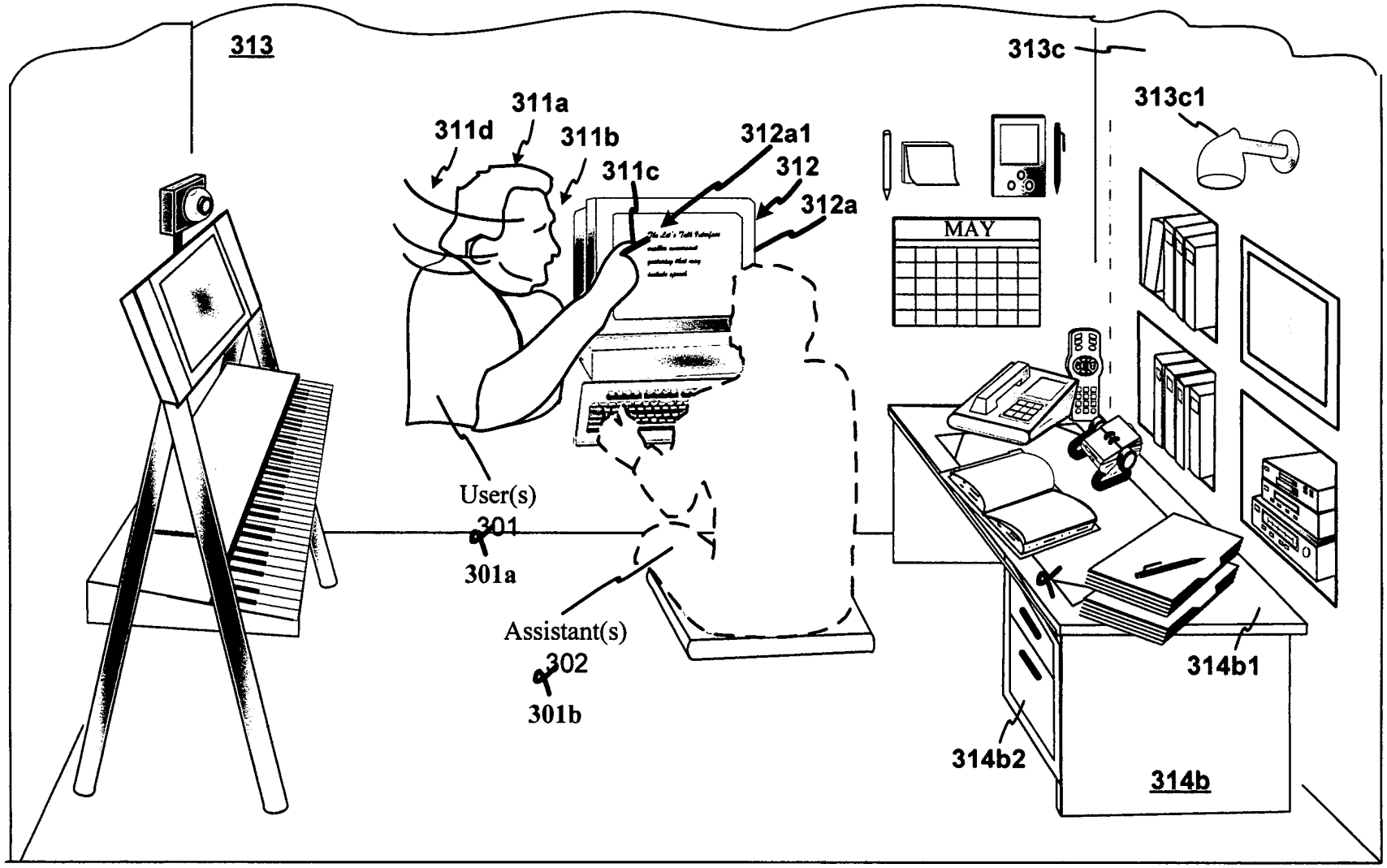


FIG. 2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311c
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312a
MAY
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301a
Assistant(s)
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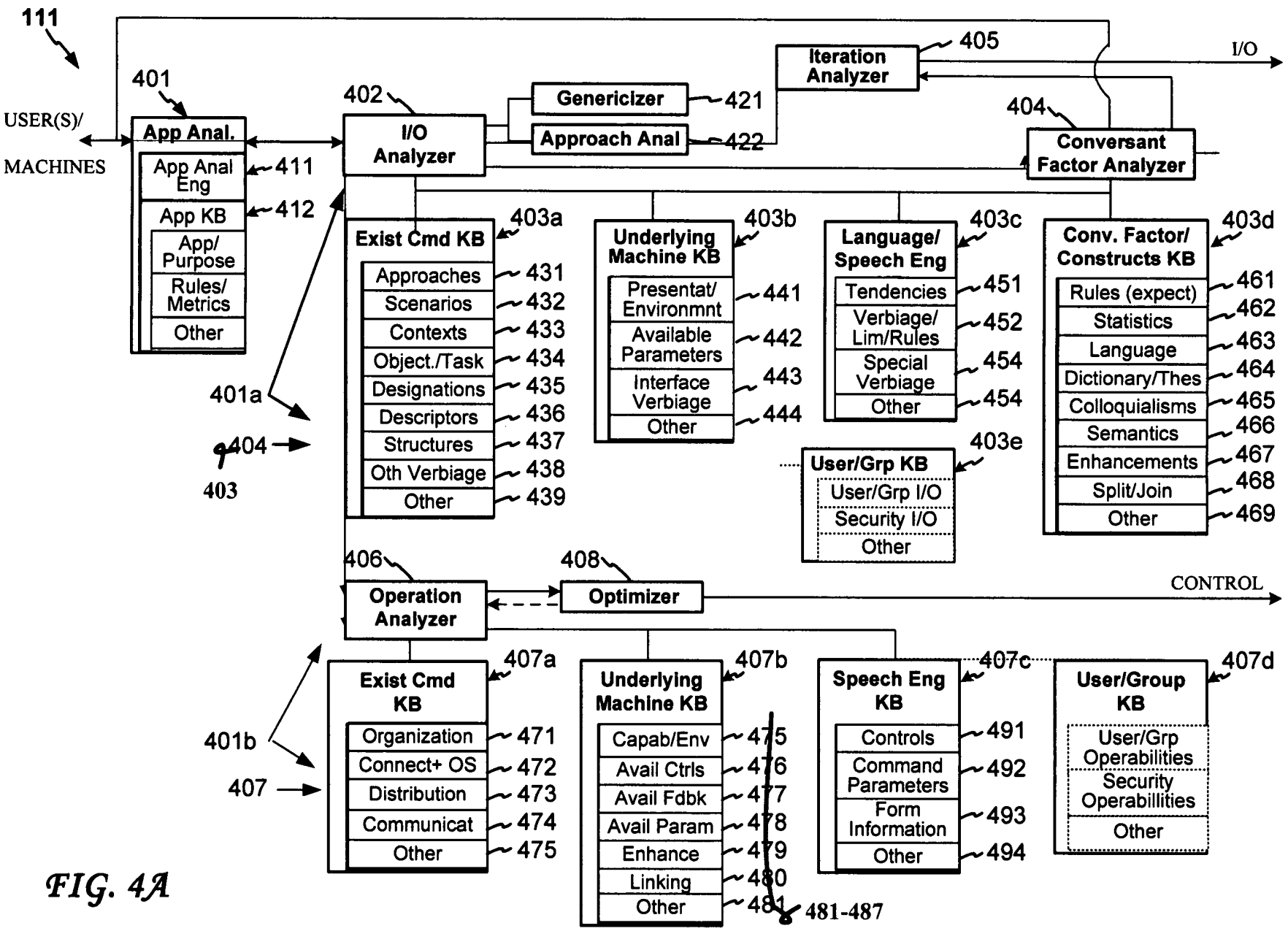
301b
314b1
314b2
314b

FIG. 3a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App Anal.
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411
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412
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Rules/ Metrics
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Iteration Analyzer
I/O
404
Conversant Factor Analyzer
403a
Exist Cmd KB
Approaches
431
Scenarios
432
Contexts
433
Object./Task
434
Designations
435
Descriptors
436
Structures
437
Oth Verbiage
438
Other
439
403b
Underlying Machine KB
Presentat/ Environmnt
441
Available Parameters
442
Interface Verbiage
443
Other
444
403c
Language/ Speech Eng
Tendencies
451
Verbiage/ Lim/Rules
452
Special Verbiage
454
Other
454
403d
Conv. Factor/ Constructs KB
Rules (expect)
461
Statistics
462
Language
463
Dictionary/Thes
464
Colloquialisms
465
Semantics
466
Enhancements
467
Split/Join
468
Other
469
403e
User/Grp KB
User/Grp I/O
Security I/O
Other
406
Operation Analyzer
408
Optimizer
CONTROL
401b
407
407a
Exist Cmd KB
Organization
471
Connect+ OS
472
Distribution
473
Communicat
474
Other
475
407b
Underlying Machine KB
Capab/Env
476
Avail Ctrls
476
Avail Fdbk
477
Avail Param
478
Enhance
479
Linking
480
Other
481
481-487
407c
Speech Eng KB
Controls
491
Command Parameters
492
Form Information
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Other
494
407d
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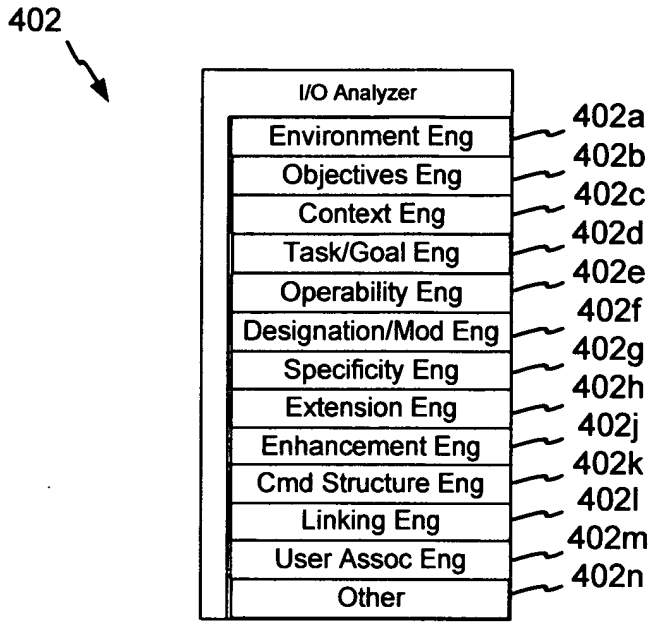
User/Grp Operabilities
Security Operabillities
Other

FIG. 4A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I/O Analyzer
Environment Eng
Objectives Eng
Context Eng
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Operability Eng
Designation/Mod Eng
Specificity Eng
Extension Eng
Enhancement Eng
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User Assoc Eng
Other
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402e
402f
402g
402h
402j
402k
402l
402m
402n

FIG. 4B

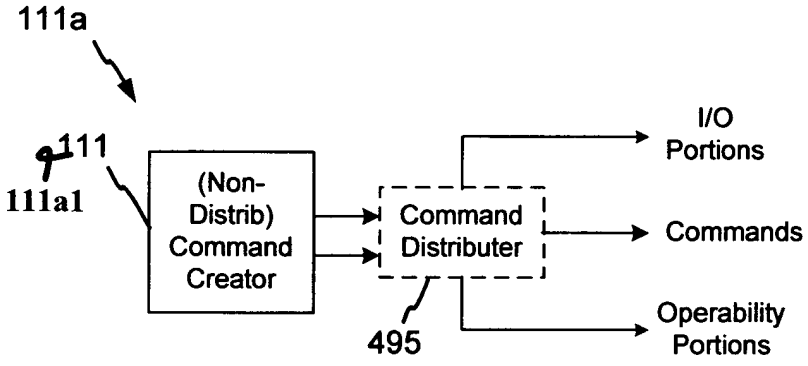

111a
111
111a1
(Non-Distrib) Command Creator
Command Distributer
495
I/O Portions
Commands
Operability Portions

FIG. 4C

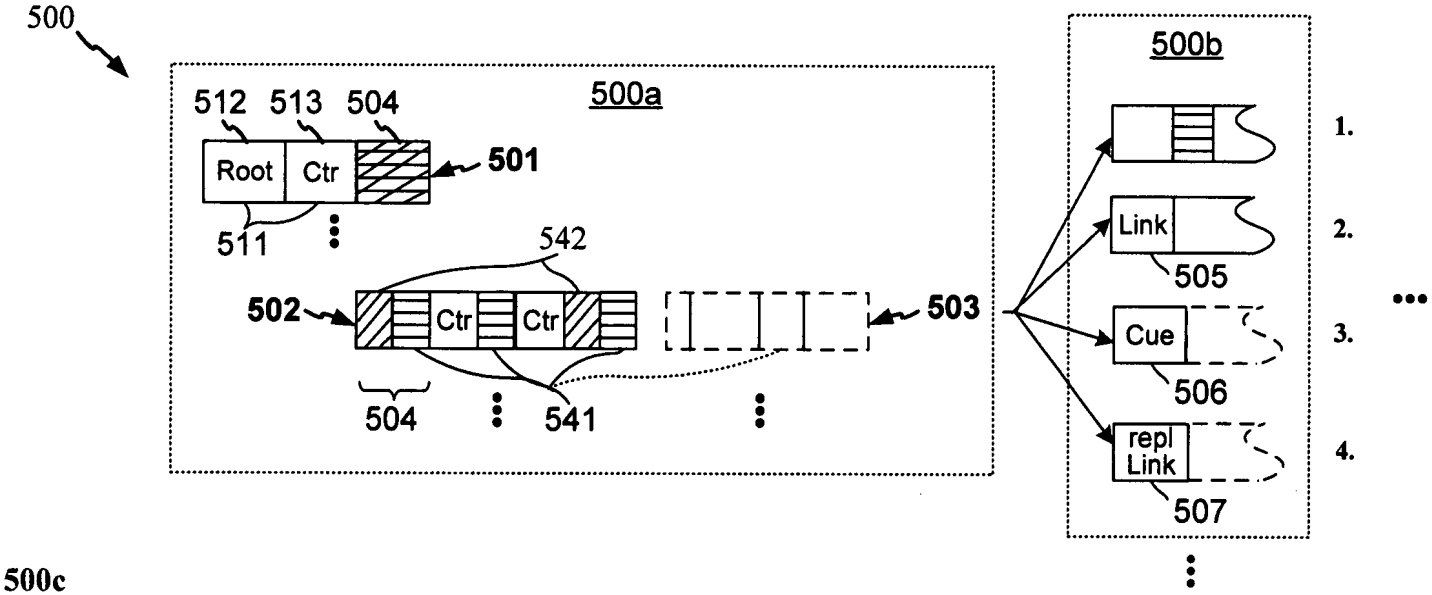

500
500a
512
513
504
Root
Ctr
501
511
542
502
Ctr
Ctr
503
504
541
500b
1.
Link
505
2.
Cue
506
3.
repl Link
507
4.

FIG. 5A

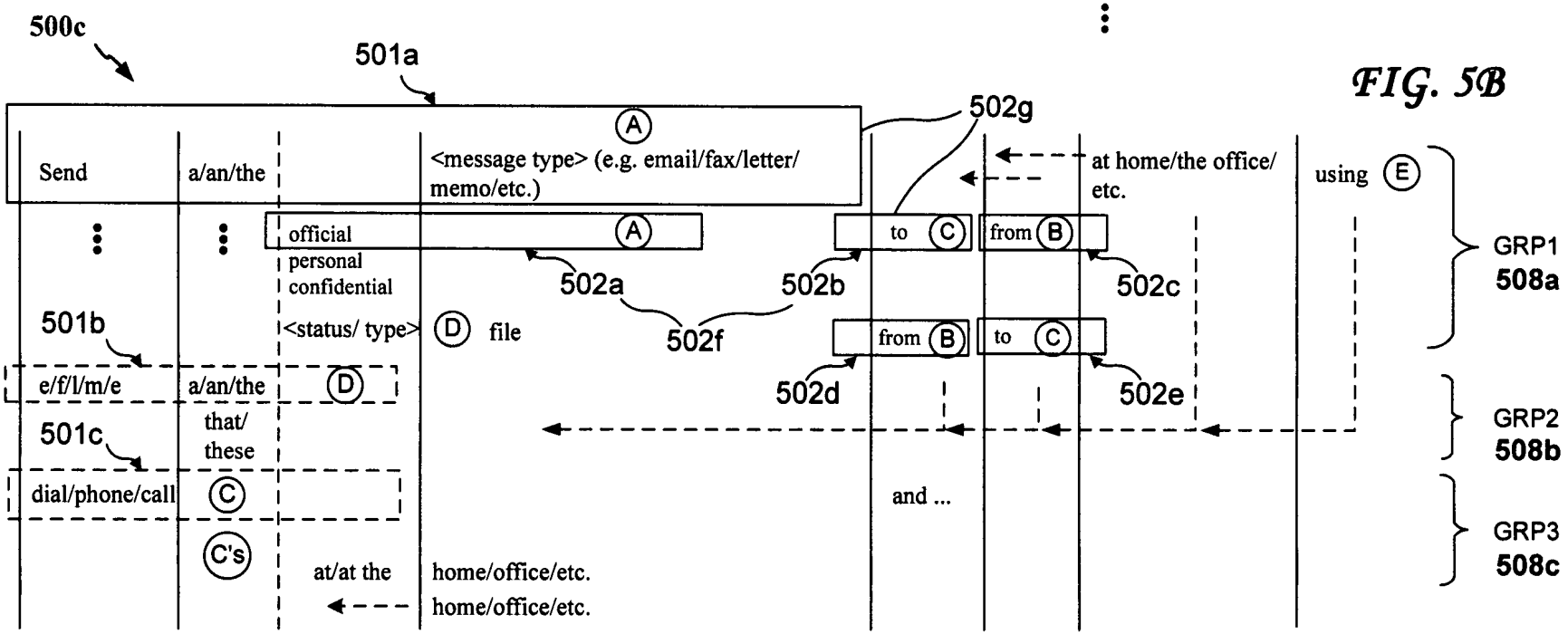

500c
501a
A
Send
a/an/the
<message type> (e.g. email/fax/letter/ memo/etc.)
502g
at home/the office/ etc.
using E
official
personal
confidential
A
to C
from B
502a
502b
502c
501b
<status/ type>
D
file
502f
from B
to C
e/f/l/m/e
a/an/the
D
502d
502e
501c
that/ these
dial/phone/call
C
C's
and ...
at/at the
home/office/etc.
home/office/etc.
GRP1
508a
GRP2
508b
GRP3
508c

FIG. 5B

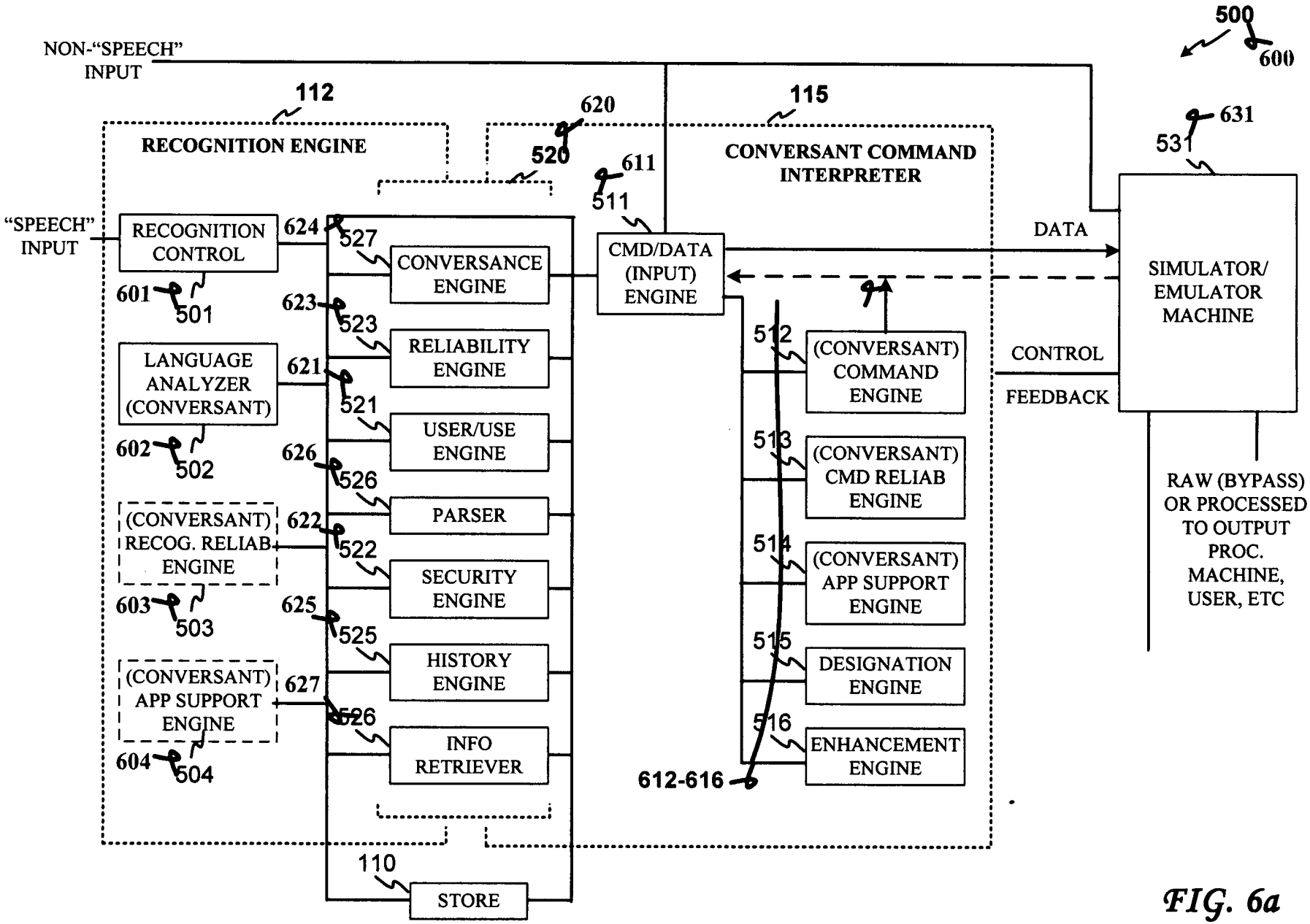

500
600
NON-"SPEECH" INPUT
112
RECOGNITION ENGINE
620
520
611
511
115
CONVERSANT COMMAND INTERPRETER
631
531
"SPEECH" INPUT
RECOGNITION CONTROL
624
527
CONVERSANCE ENGINE
601
501
623
523
RELIABILITY ENGINE
LANGUAGE ANALYZER (CONVERSANT)
621
521
USER/USE ENGINE
602
502
626
526
PARSER
(CONVERSANT) RECOG. RELIAB ENGINE
622
522
SECURITY ENGINE
603
503
625
525
HISTORY ENGINE
(CONVERSANT) APP SUPPORT ENGINE
627
526
INFO RETRIEVER
604
504
110
STORE
CMD/DATA (INPUT) ENGINE
512
(CONVERSANT) COMMAND ENGINE
513
(CONVERSANT) CMD RELIAB ENGINE
514
(CONVERSANT) APP SUPPORT ENGINE
515
DESIGNATION ENGINE
516
ENHANCEMENT ENGINE
612-616
DATA
CONTROL
FEEDBACK
SIMULATOR/ EMULATOR MACHINE
RAW (BYPASS) OR PROCESSED TO OUTPUT PROC. MACHINE, USER, ETC

FIG. 6a

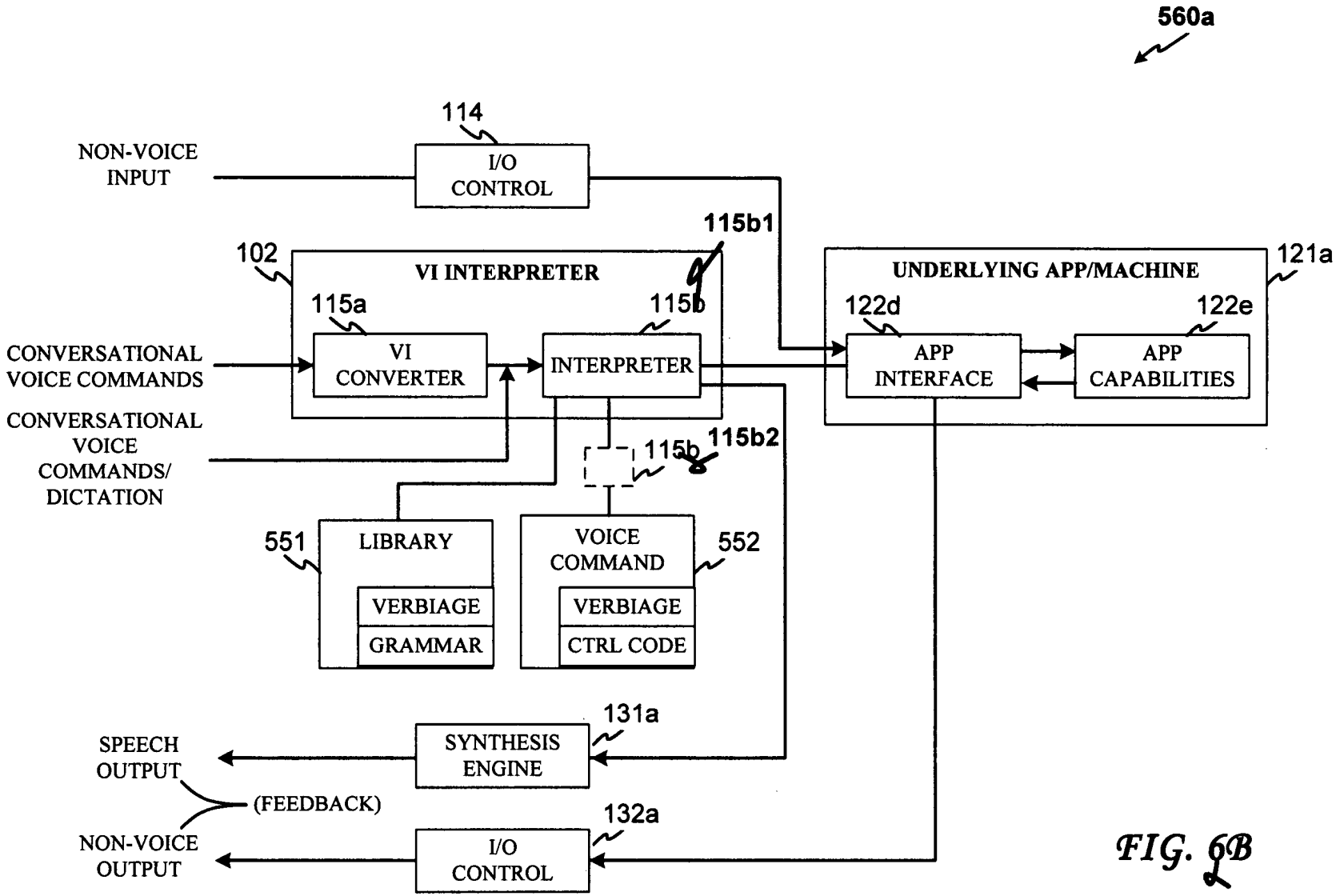

560a
114
NON-VOICE INPUT
I/O CONTROL
115b1
102
VI INTERPRETER
121a
UNDERLYING APP/MACHINE
115a
115b
122d
122e
CONVERSATIONAL VOICE COMMANDS
VI CONVERTER
INTERPRETER
APP INTERFACE
APP CAPABILITIES
CONVERSATIONAL VOICE COMMANDS/ DICTATION
115b
115b2
551
LIBRARY
VERBIAGE
GRAMMAR
VOICE COMMAND
552
VERBIAGE
CTRL CODE
131a
SPEECH OUTPUT
SYNTHESIS ENGINE
(FEEDBACK)
132a
NON-VOICE OUTPUT
I/O CONTROL

FIG. 6B
FIG. 4D

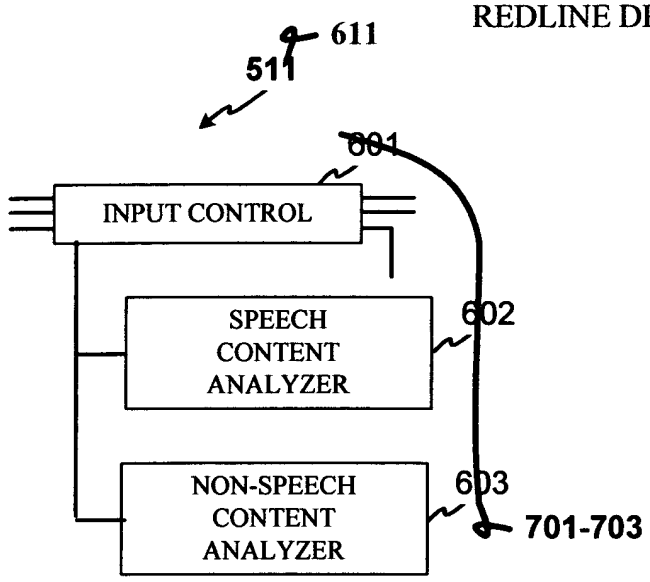


FIG. 7a

FIG. 7A

INPUT ENGINE

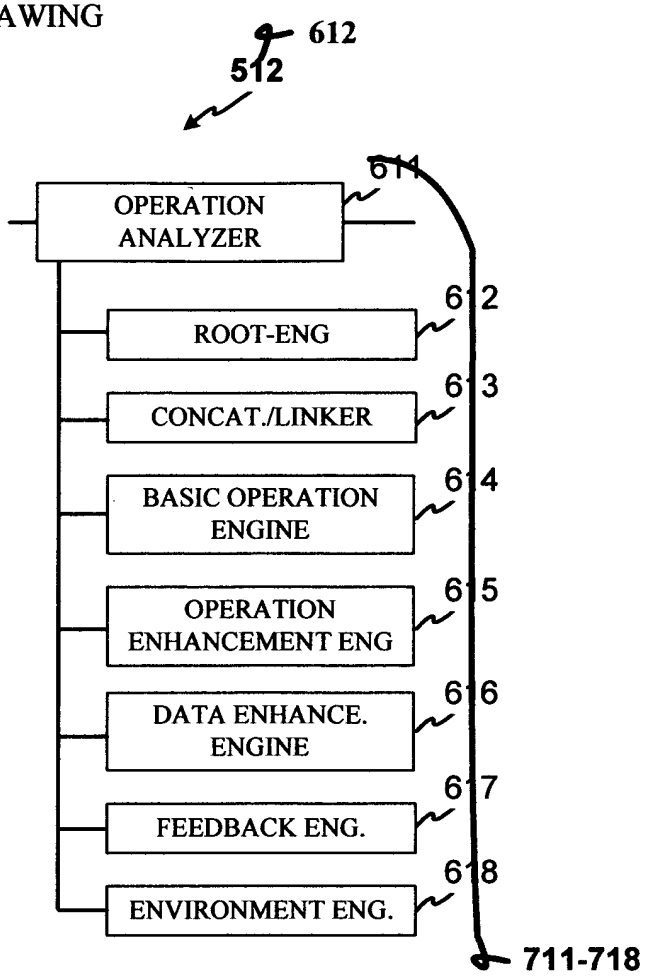


FIG. 7b

FIG. 7B

COMMAND ENGINE

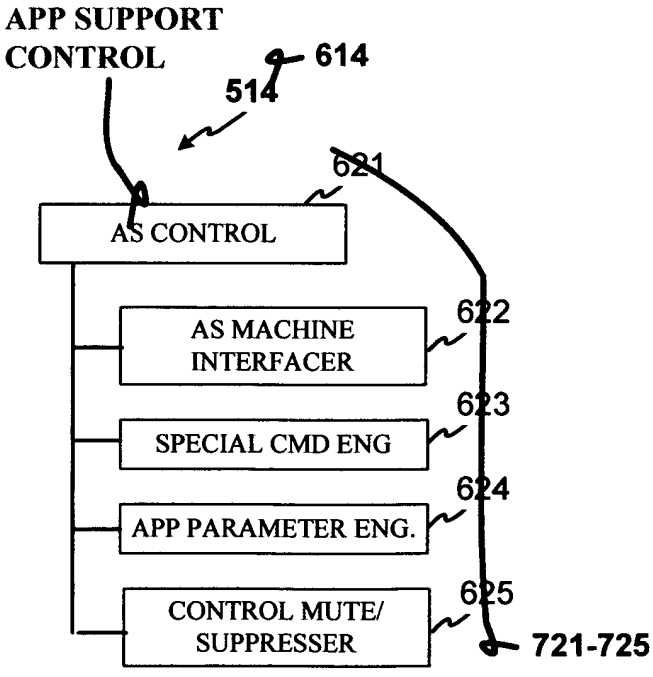


FIG. 7c

FIG. 7C

APPLICATION SUPPORT

REDLINE DRAWING

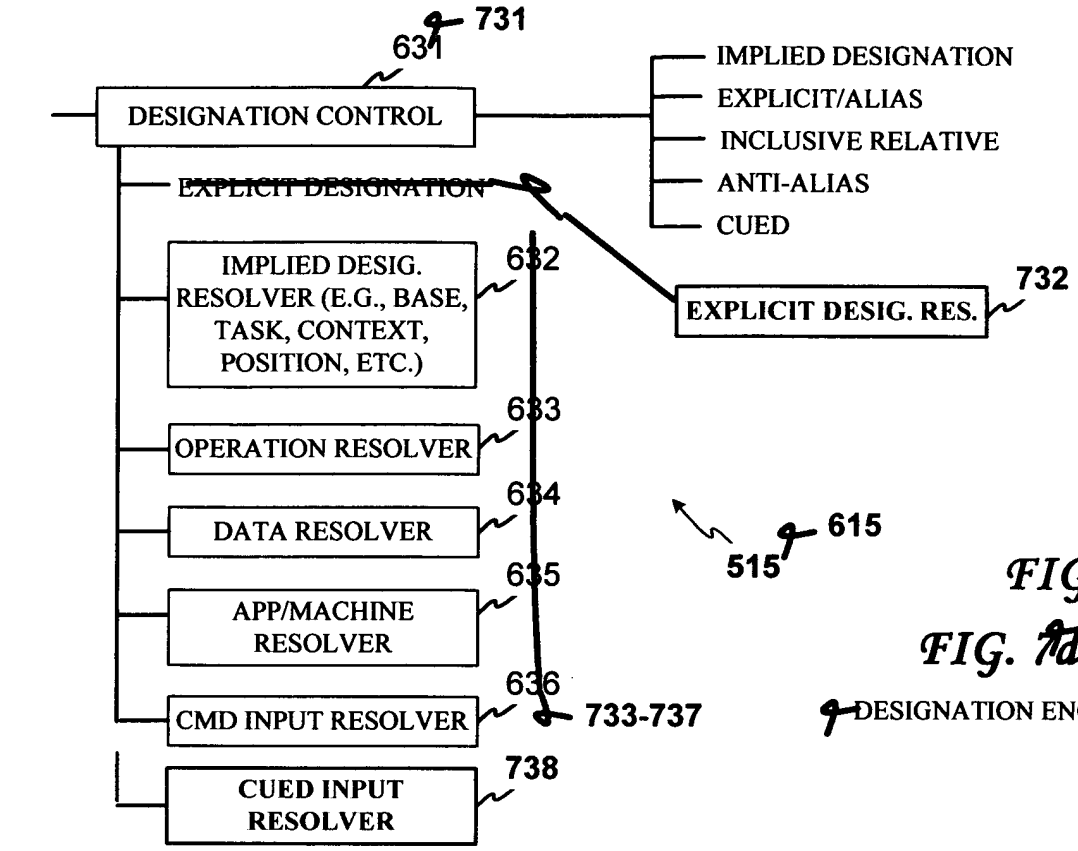


FIG. 7D

FIG. 7d

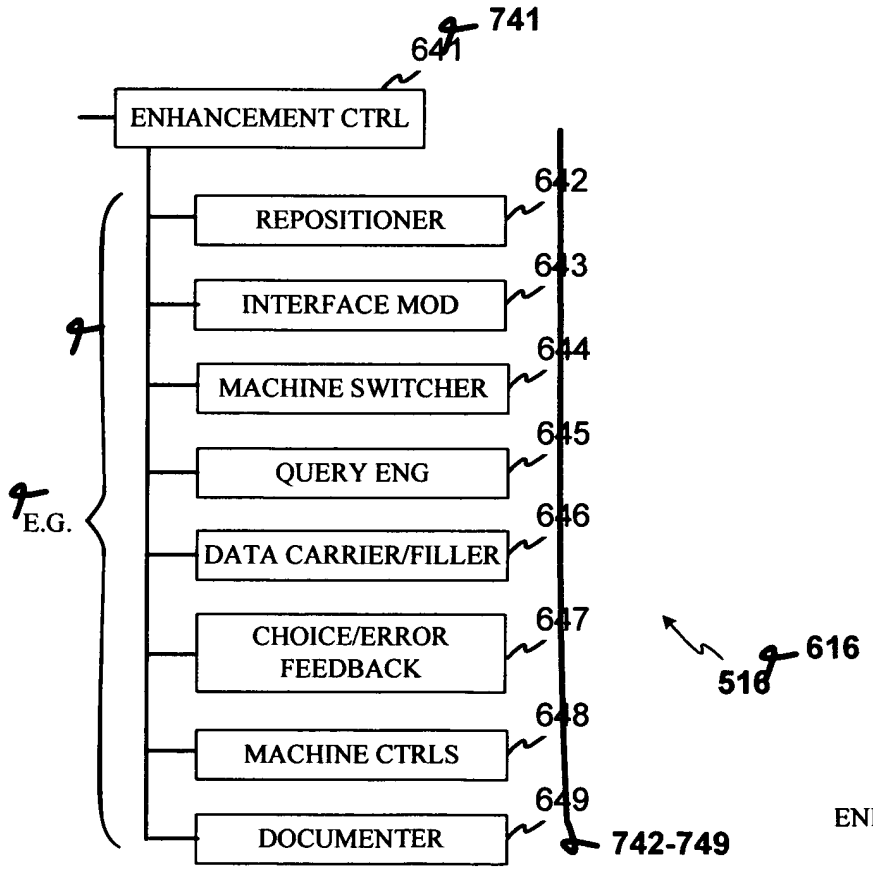


FIG. 7E

FIG. 7e

REDLINE DRAWING

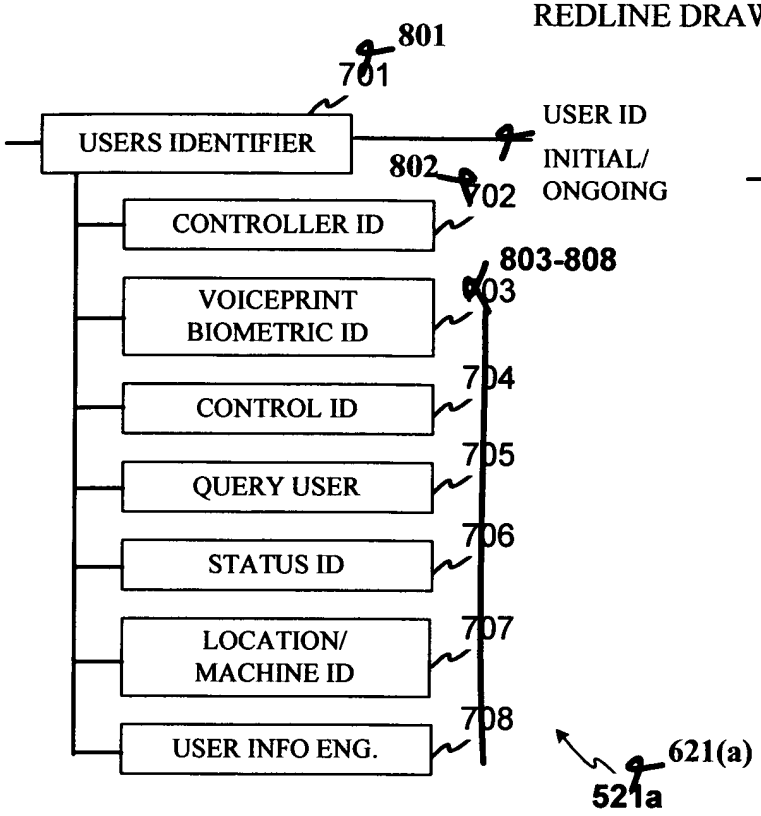


FIG. 8a

FIG. 8A

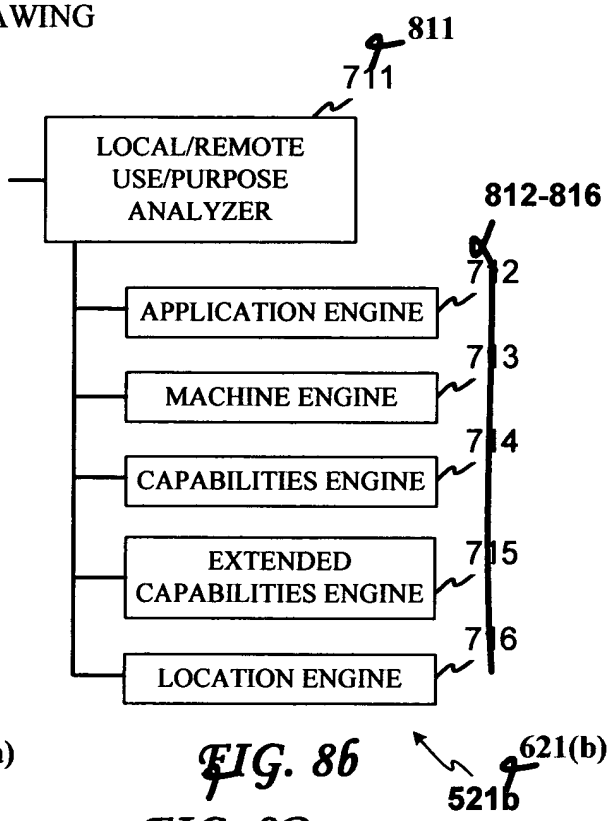


FIG. 8b

FIG. 8B

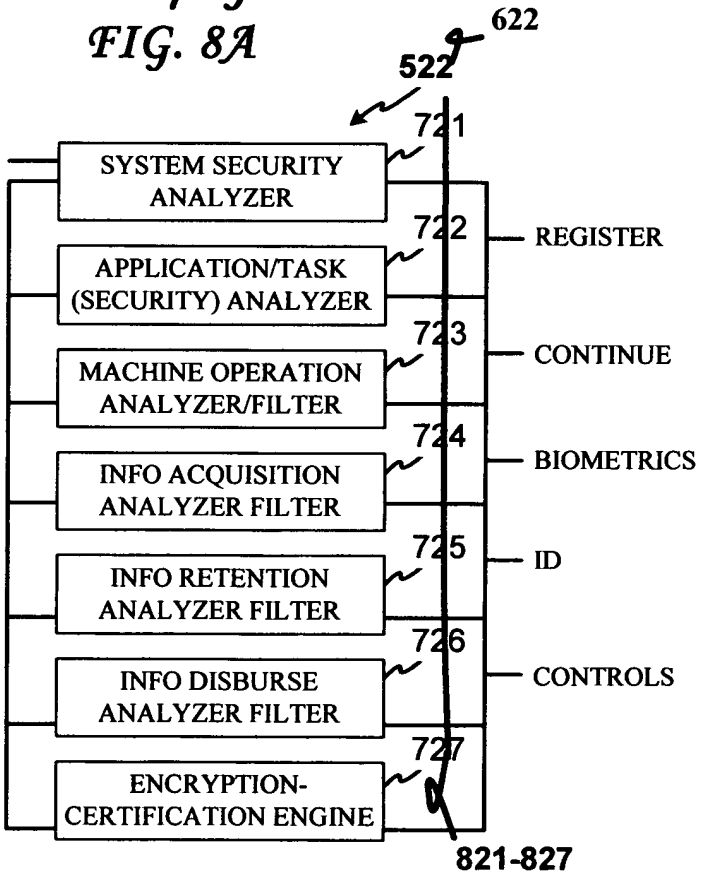


FIG. 8c

FIG. 8C

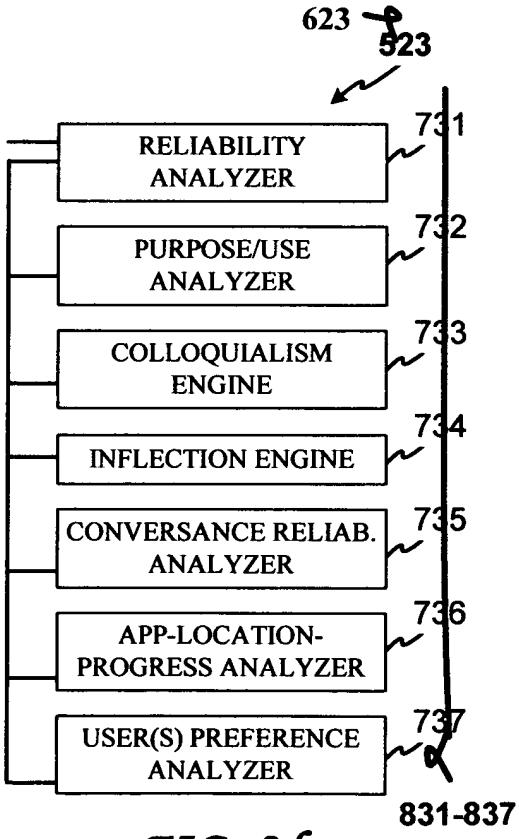


FIG. 8d

FIG. 8D

REDLINE DRAWING

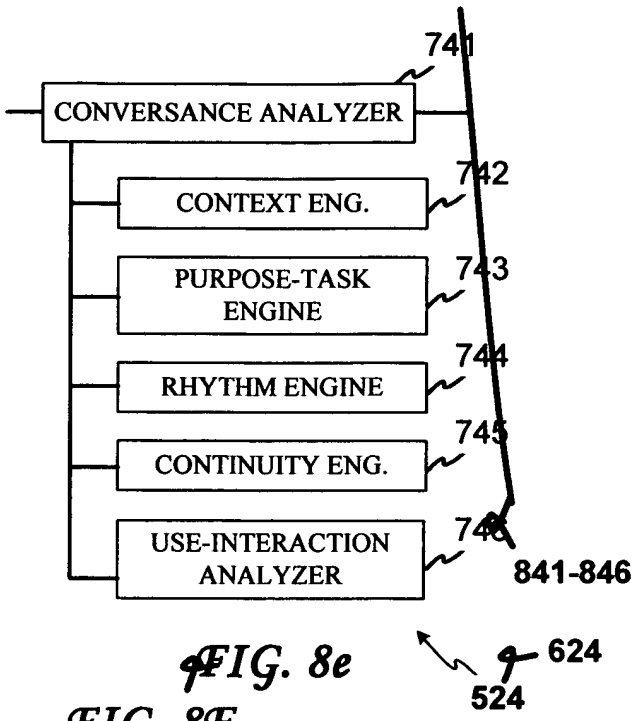


FIG. 8e

FIG. 8E

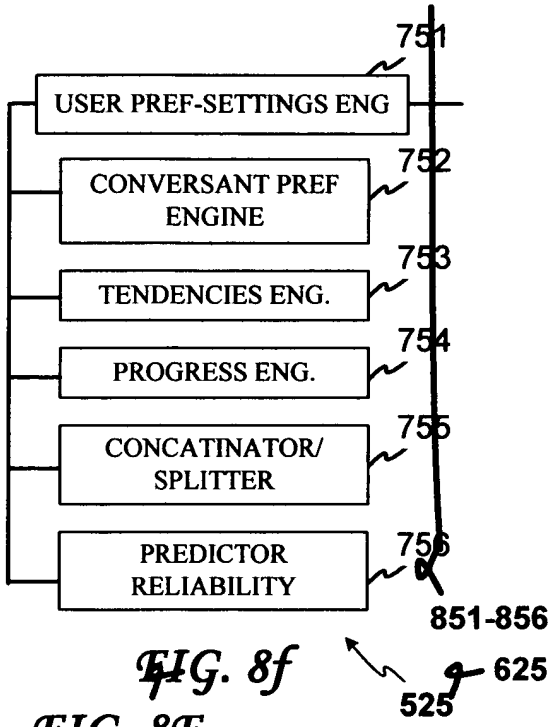


FIG. 8f

FIG. 8F

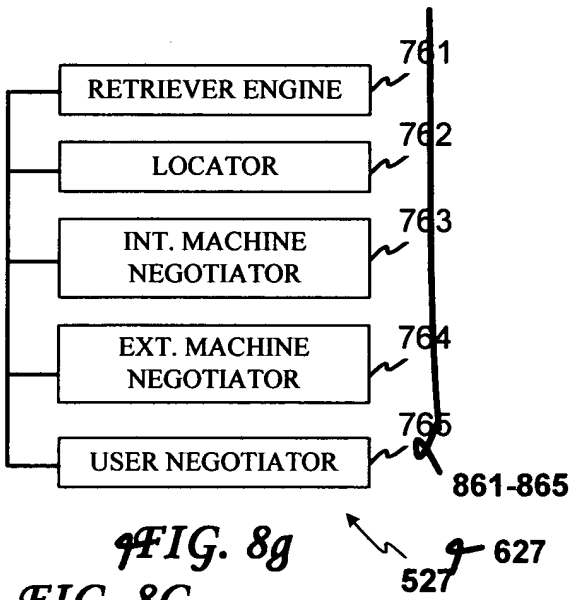


FIG. 8g

FIG. 8G

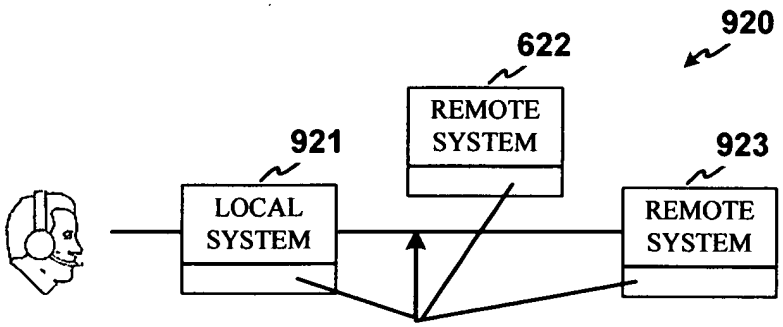


FIG. 6a

FIG. 9B

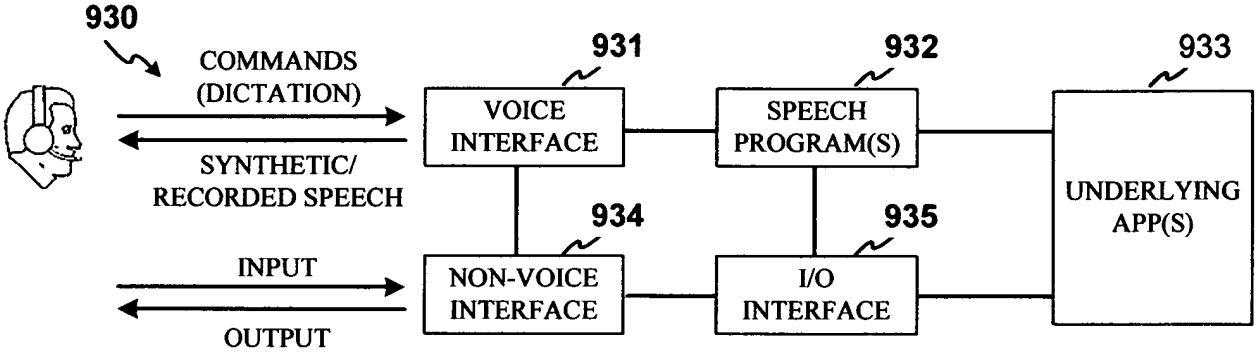


FIG. 9C

FIG. 6b

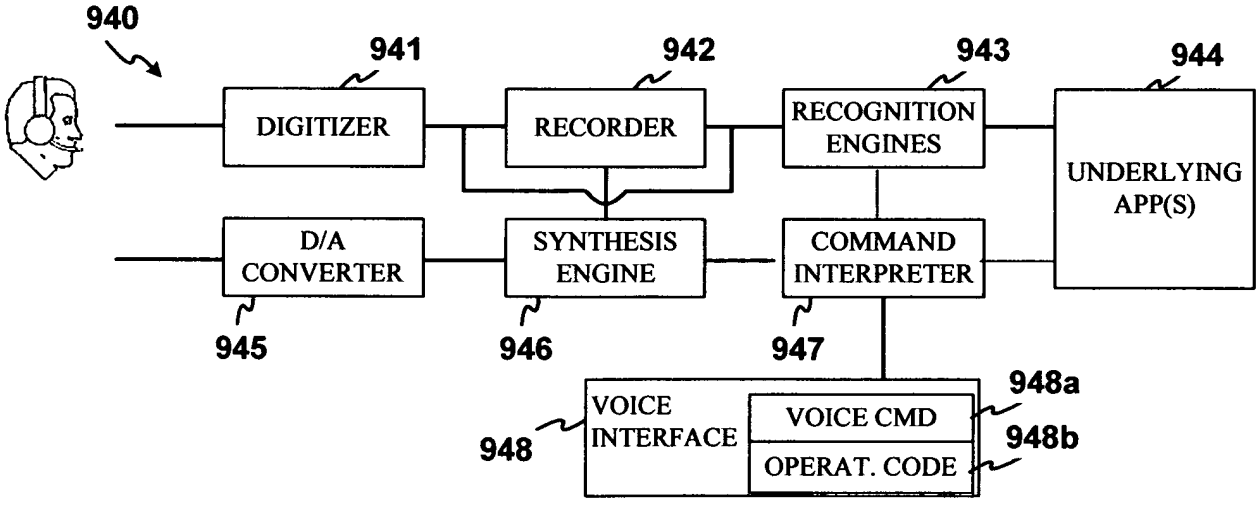


FIG. 9D

FIG. 6c

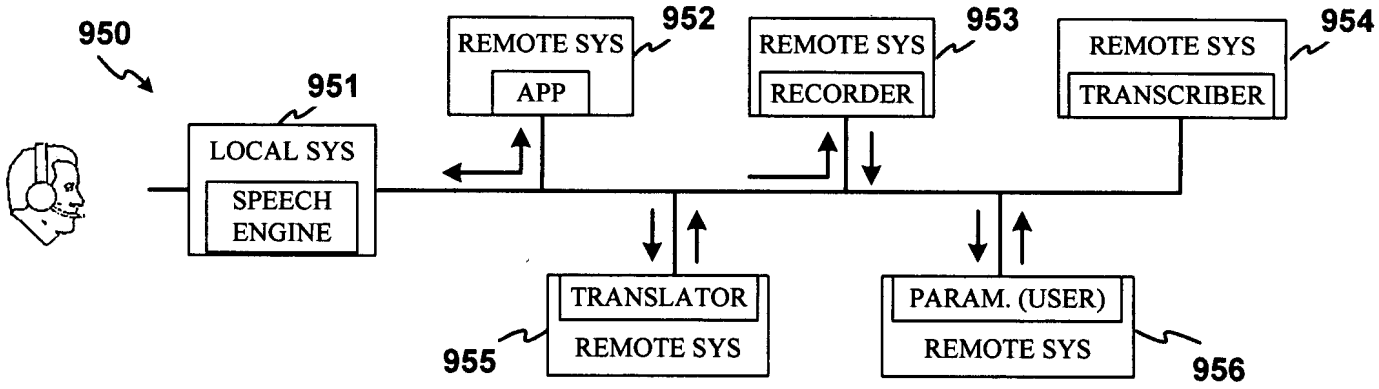


FIG. 6d
FIG. 9E

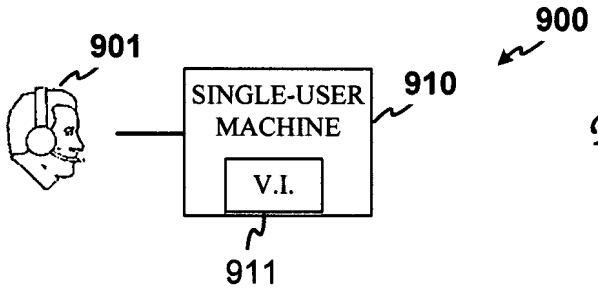


FIG. 6e
FIG. 9A

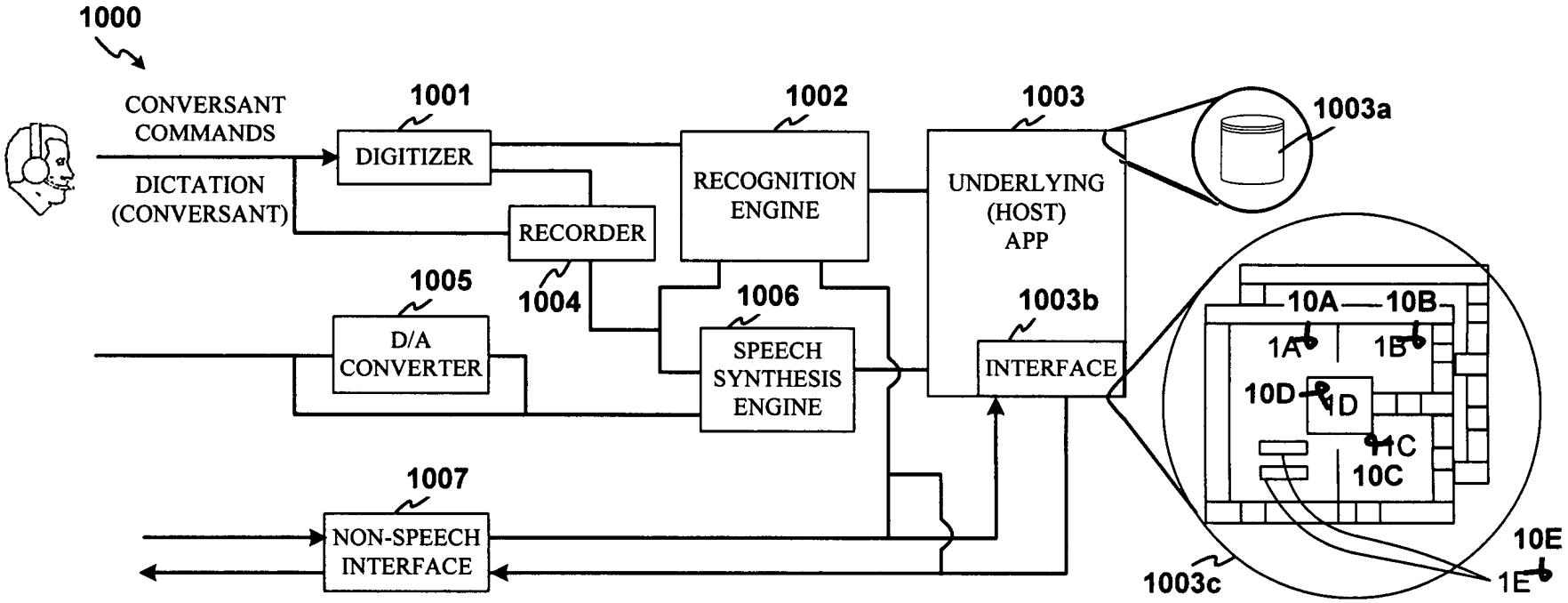


FIG. 10A ~~FIG~~. 10-1

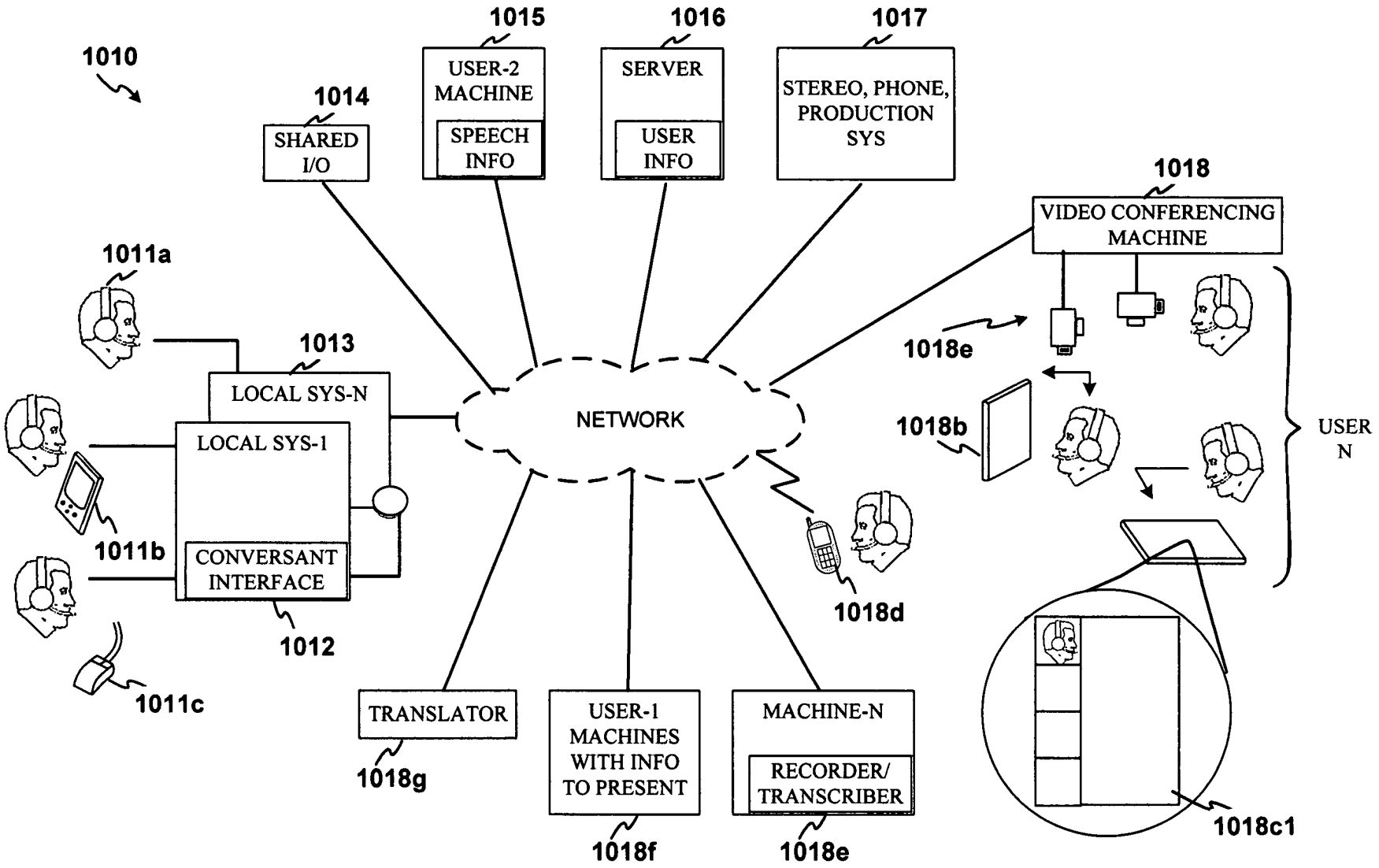


FIG. 10~~2~~ FIG. 10B

FIG. 5 — FIG. 10C

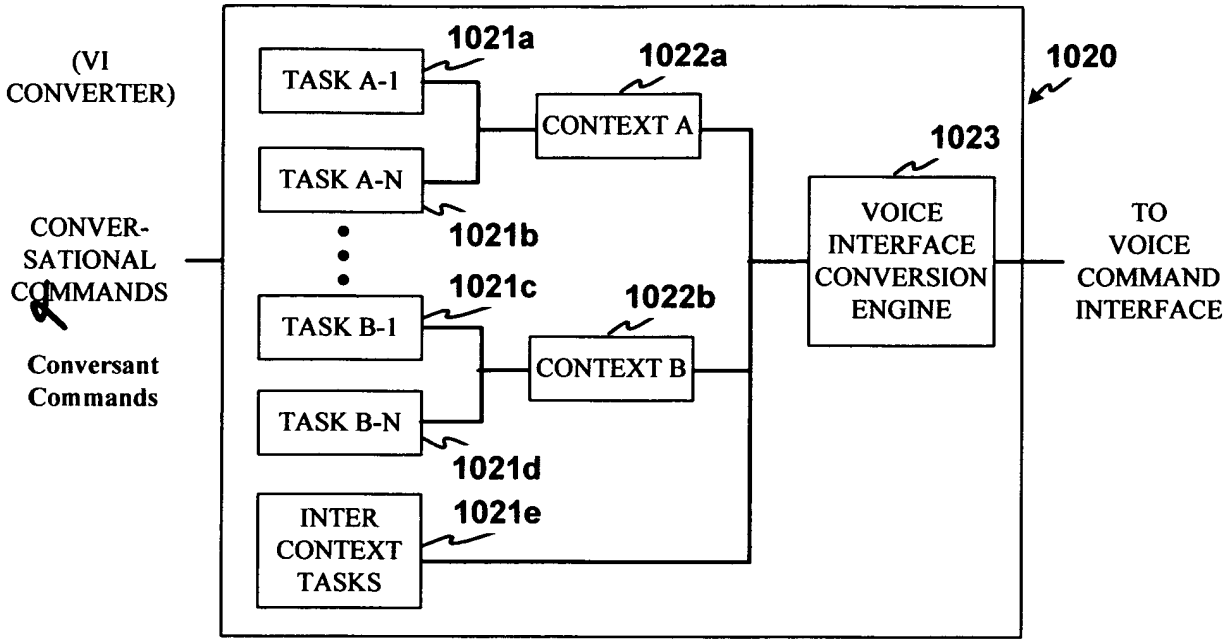
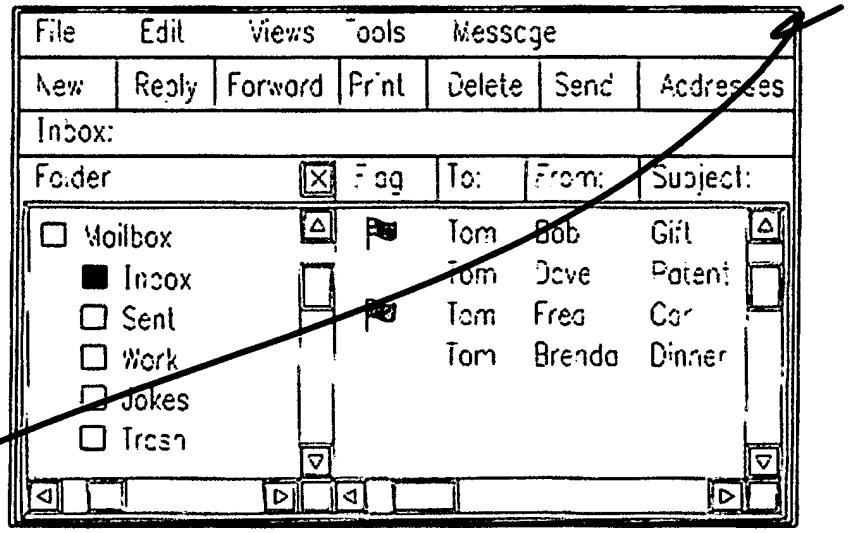


FIG. 10



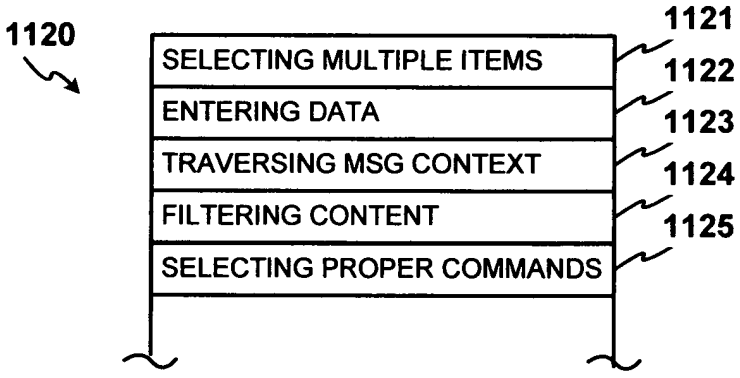


FIG. 11B
FIG. 11B

REDLINE DRAWING

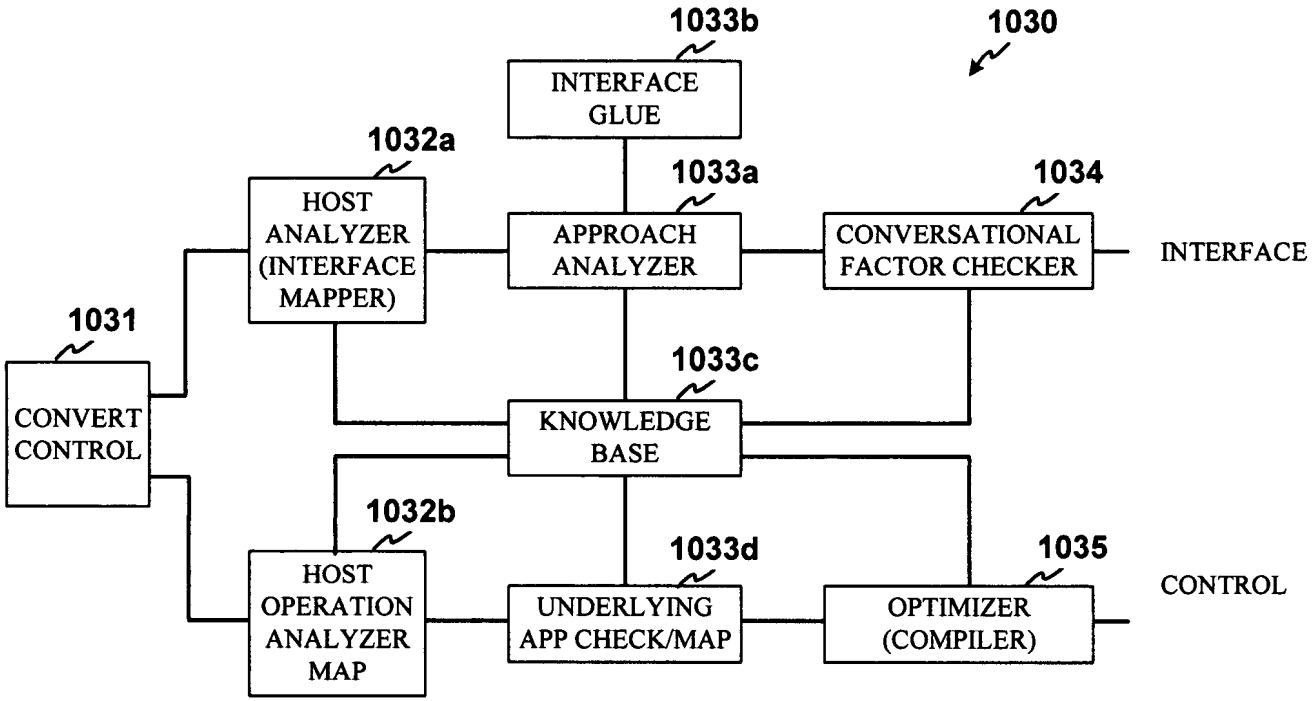


FIG. 10D ~~FIG. 19~~

NEW COMMAND/CONVERSION

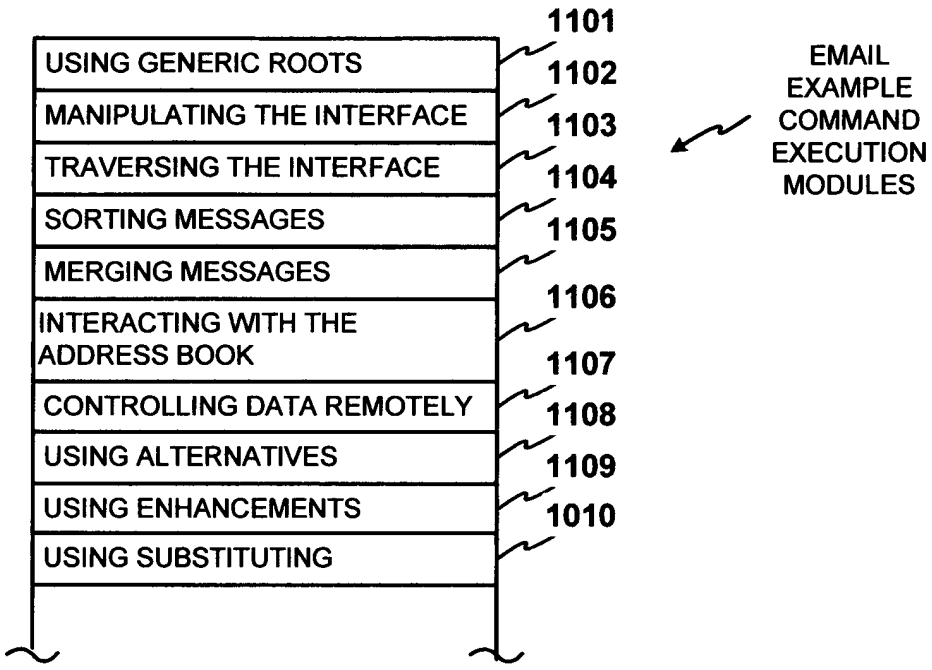

1100
USING GENERIC ROOTS
MANIPULATING THE INTERFACE
TRAVERSING THE INTERFACE
SORTING MESSAGES
MERGING MESSAGES
INTERACTING WITH THE ADDRESS BOOK
CONTROLLING DATA REMOTELY
USING ALTERNATIVES
USING ENHANCEMENTS
USING SUBSTITUTING
1101
1102
1103
1104
1105
1106
1107
1108
1109
1010
EMAIL EXAMPLE COMMAND EXECUTION MODULES

FIG. 11A

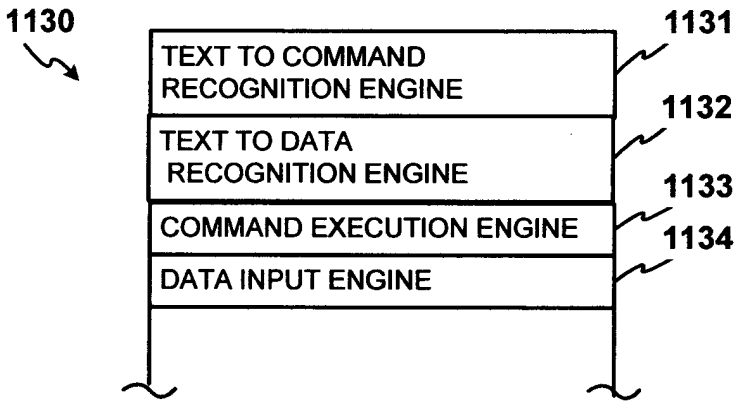
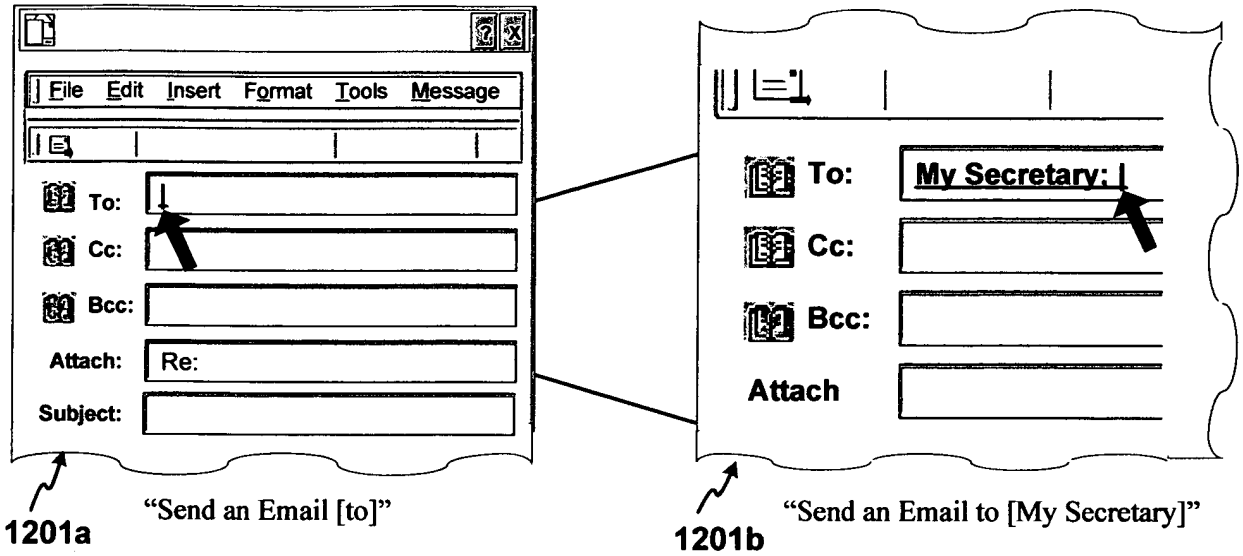

1130
TEXT TO COMMAND RECOGNITION ENGINE
1131
TEXT TO DATA RECOGNITION ENGINE
1132
COMMAND EXECUTION ENGINE
1133
DATA INPUT ENGINE
1134

FIG. 11C

FIG. 8

REDLINE DRAWING



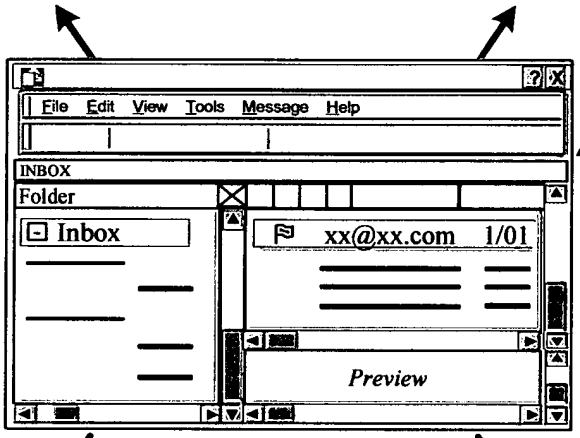
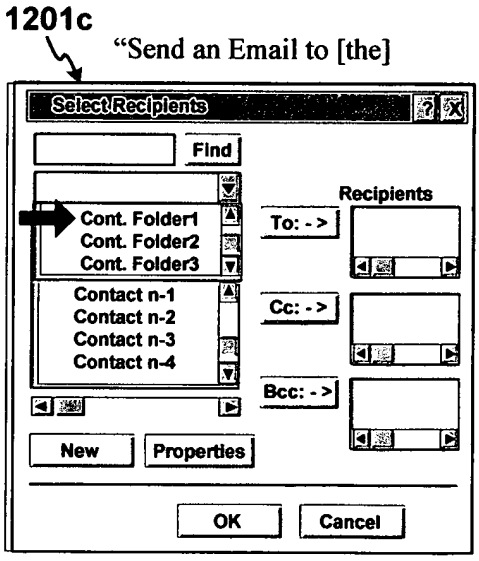
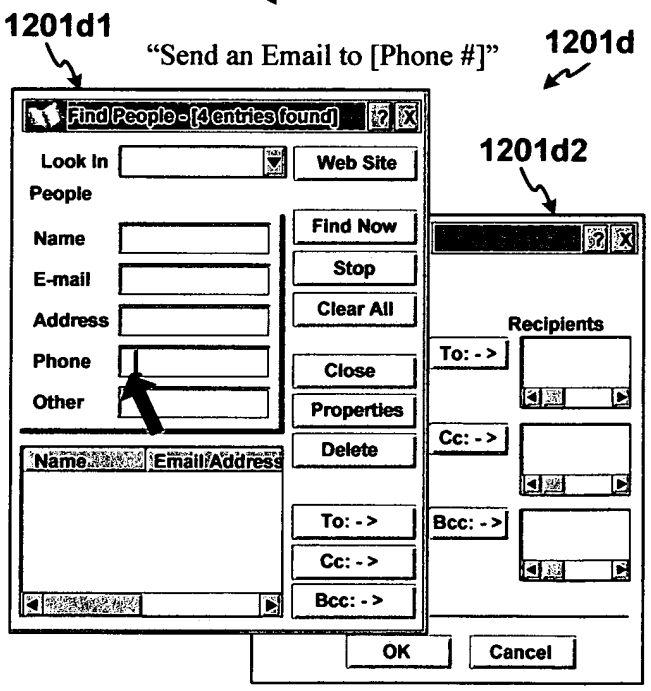


FIG. 12

FIG. 12A





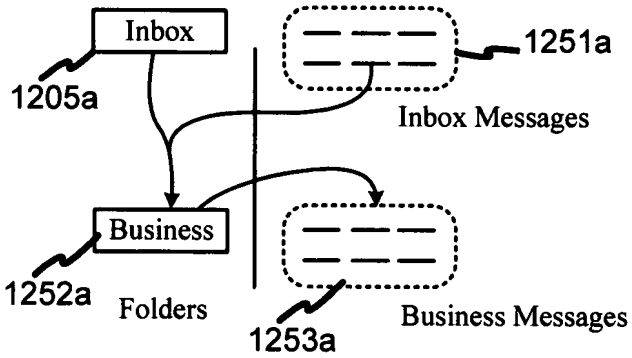


FIG. 12E-2

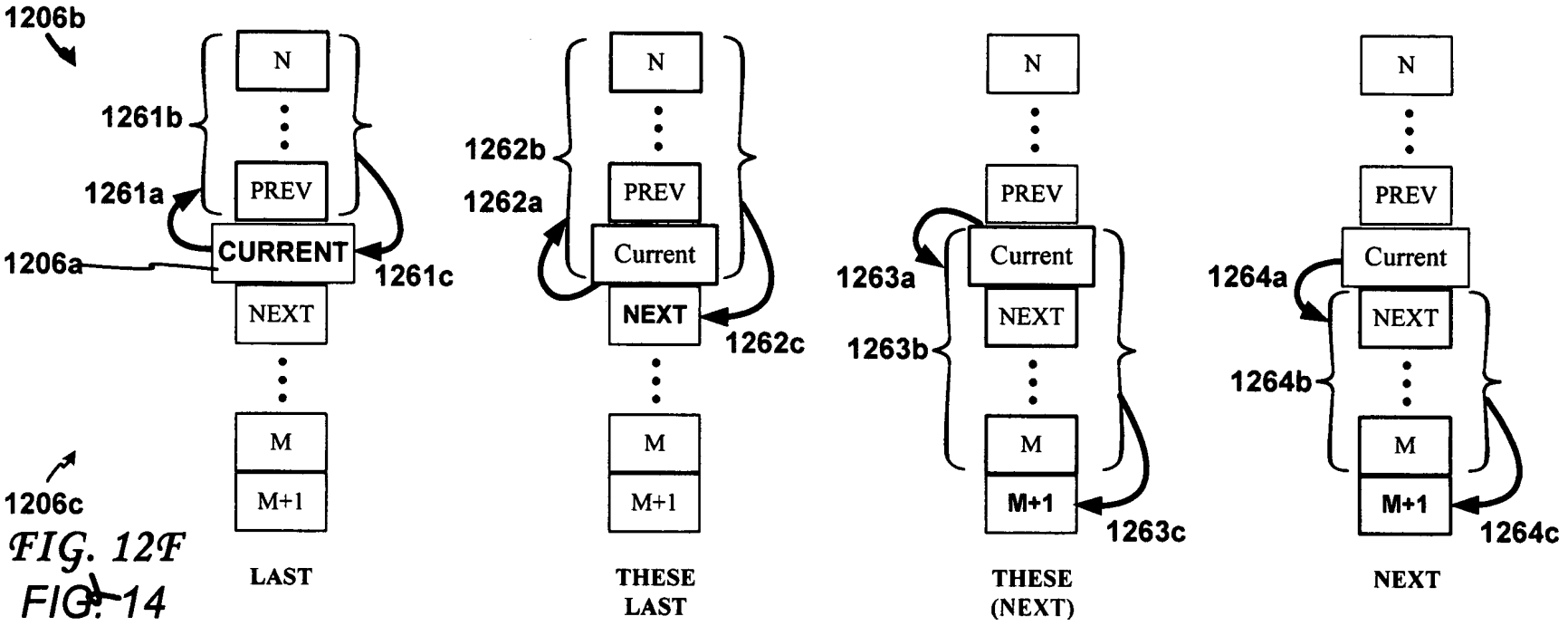


FIG. 12F
FIG. 14

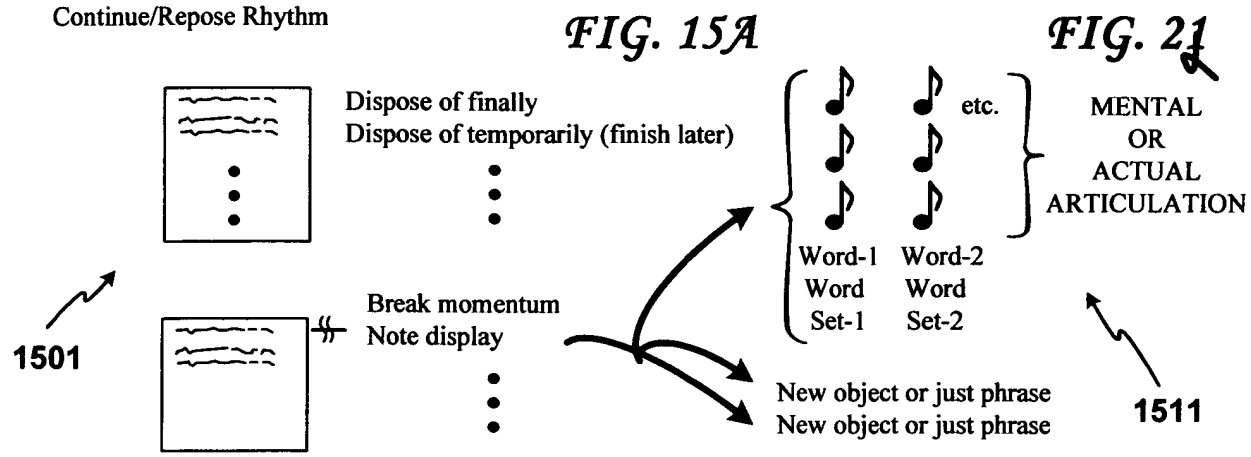


FIG. 15A

FIG. 21

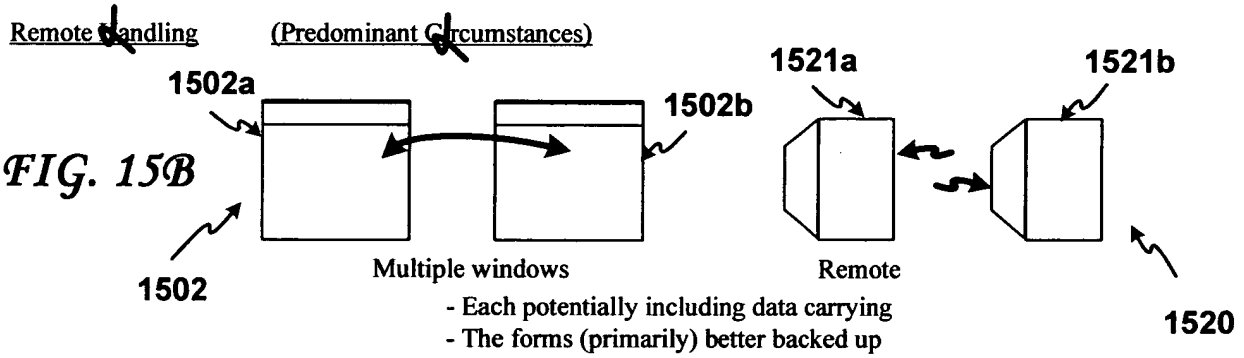


FIG. 15B

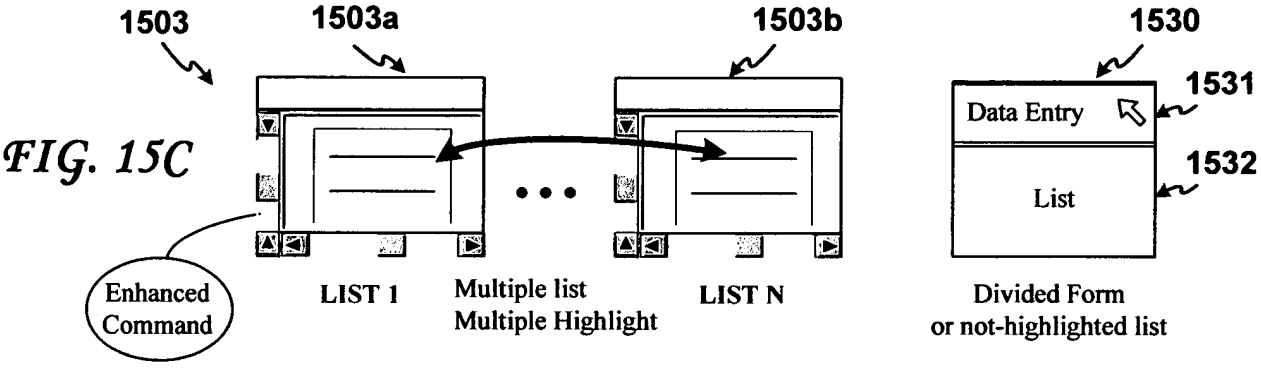
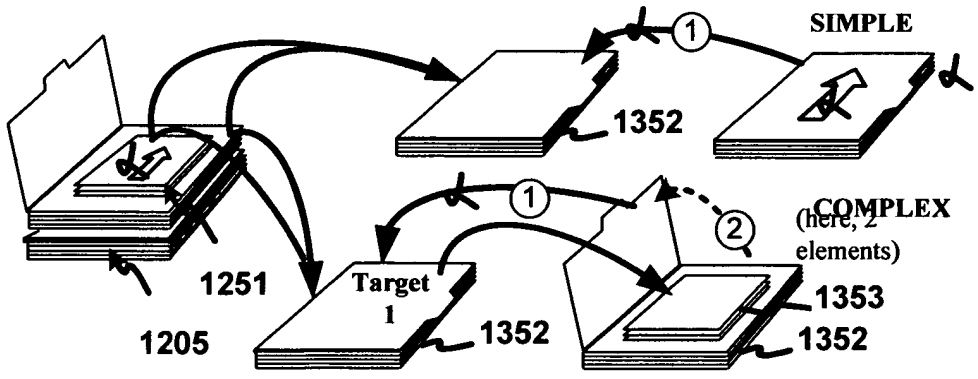


FIG. 15C



E.g. GOTO <foldername> (messages)
Illustrated using folders but may apply to any such re-direction.

FIG. 12E-1

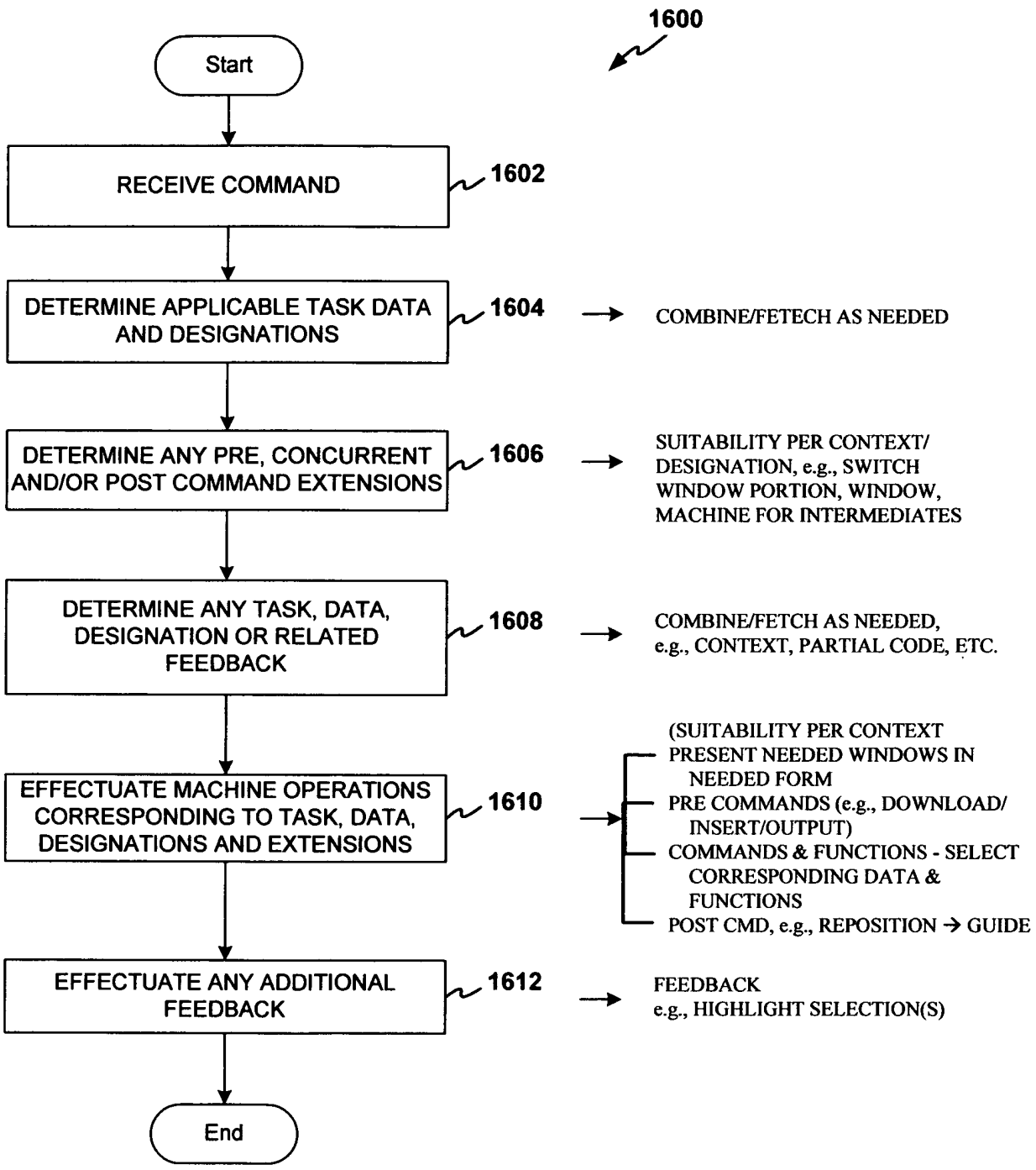

1600
Start
RECEIVE COMMAND
1602
DETERMINE APPLICABLE TASK DATA AND DESIGNATIONS
1604
COMBINE/FETECH AS NEEDED
DETERMINE ANY PRE, CONCURRENT AND/OR POST COMMAND EXTENSIONS
1606
SUITABILITY PER CONTEXT/ DESIGNATION, e.g., SWITCH WINDOW PORTION, WINDOW, MACHINE FOR INTERMEDIATES
DETERMINE ANY TASK, DATA, DESIGNATION OR RELATED FEEDBACK
1608
COMBINE/FETCH AS NEEDED, e.g., CONTEXT, PARTIAL CODE, ETC.
EFFECTUATE MACHINE OPERATIONS CORRESPONDING TO TASK, DATA, DESIGNATIONS AND EXTENSIONS
1610
(SUITABILITY PER CONTEXT
PRESENT NEEDED WINDOWS IN NEEDED FORM
PRE COMMANDS (e.g., DOWNLOAD/ INSERT/OUTPUT)
COMMANDS & FUNCTIONS - SELECT CORRESPONDING DATA & FUNCTIONS
POST CMD, e.g., REPOSITION → GUIDE
EFFECTUATE ANY ADDITIONAL FEEDBACK
1612
FEEDBACK
e.g., HIGHLIGHT SELECTION(S)
End

FIG. 20

FIG. 16

REDLINE DRAWING

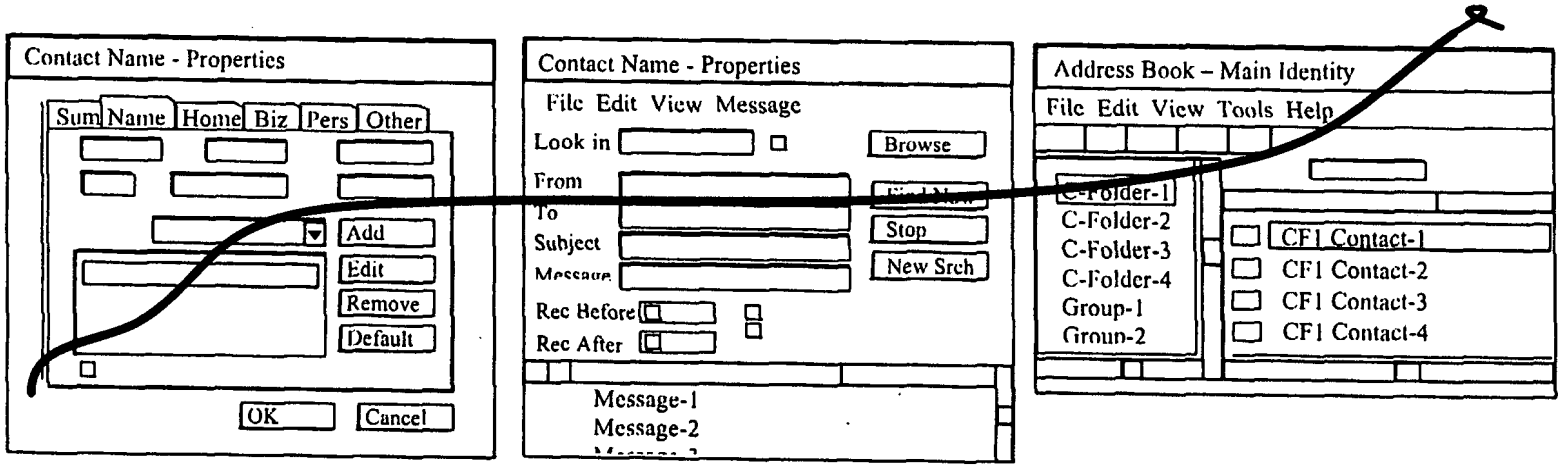


FIG. 13